

5473

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Glu | Glu | Gln | Pro | Leu | Ala | Ala | Ala | Pro | Thr | Glu | Cys | Leu | Glu | Gln | 1 | 5 | 10 | 15 |
| Val | Ile | Gly | Gly | Ala | Gly | Asp | Pro | Gly | Thr | Trp | Ala | Ser | Phe | Pro | Ser | 20 | 25 | 30 | |
| Pro | Leu | Pro | Gly | Pro | Ala | Pro | Leu | Lys | Gly | Gly | Lys | Thr | Met | Ala | Thr | 35 | 40 | 45 | |
| Asn | Phe | Ser | Asp | Ile | Val | Lys | Gln | Gly | Tyr | Val | Lys | Met | Lys | Ser | Arg | 50 | 55 | 60 | |
| Lys | Leu | Gly | Ile | Tyr | Arg | Arg | Cys | Trp | Leu | Val | Phe | Arg | Lys | Ser | Ser | 65 | 70 | 75 | 80 |
| Ser | Lys | Gly | Pro | Gln | Arg | Leu | Glu | Lys | Tyr | Pro | Asp | Glu | Lys | Ser | Val | 85 | 90 | 95 | |
| Cys | Leu | Arg | Gly | Cys | Pro | Lys | Val | Thr | Glu | Ile | Ser | Asn | Val | Lys | Cys | 100 | 105 | 110 | |
| Val | Thr | Arg | Leu | Pro | Lys | Glu | Thr | Lys | Arg | Gln | Ala | Val | Ala | Ile | Ile | 115 | 120 | 125 | |
| Phe | Thr | Asp | Asp | Ser | Ala | Arg | Thr | Phe | Thr | Cys | Asp | Ser | Glu | Leu | Glu | 130 | 135 | 140 | |
| Ala | Glu | Glu | Trp | Tyr | Lys | Thr | Leu | Ser | Val | Glu | Cys | Leu | Gly | Ser | Arg | 145 | 150 | 155 | 160 |
| Leu | Asn | Asp | Ile | Ser | Leu | Gly | Glu | Pro | Asp | Leu | Leu | Ala | Pro | Gly | Val | 165 | 170 | 175 | |
| Gln | Cys | Glu | Gln | Thr | Asp | Arg | Phe | Asn | Val | Phe | Leu | Leu | Pro | Cys | Pro | 180 | 185 | 190 | |
| Asn | Leu | Asp | Val | Tyr | Gly | Glu | Cys | Lys | Leu | Gln | Ile | Thr | His | Glu | Asn | 195 | 200 | 205 | |
| Ile | Tyr | Leu | Trp | Asp | Ile | His | Asn | Pro | Arg | Val | Lys | Leu | Val | Ser | Trp | 210 | 215 | 220 | |
| Xaa | Leu | Cys | Xaa | Xaa | Arg | Arg | Tyr | Gly | Arg | Asp | Ala | Thr | Arg | Phe | Thr | 225 | 230 | 235 | 240 |
| Phe | Glu | Ala | Gly | Arg | Met | Cys | Asp | Ala | Gly | Glu | Gly | Leu | Tyr | Thr | Phe | 245 | 250 | 255 | |
| Gln | Thr | Gln | Glu | Gly | Glu | Gln | Ile | Tyr | Gln | Arg | Val | His | Ser | Ala | Thr | 260 | 265 | 270 | |

5474

Leu Ala Ile Ala Glu Gln His Lys Arg Val Leu Leu Glu Met Glu Lys
 275 280 285

Thr

<210> 6251

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6251

Arg Xaa Gln Ala Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg
 1 5 10 15

Phe Asn Gln Thr Ala Gln Thr Cys Met Glu Ala Ala Ser Asp Arg Leu
 20 25 30

Gly Leu Gly Gln Arg Arg Ser Lys Thr Met Val Gly Lys Met Trp Pro
 35 40 45

Val Leu Trp Thr Leu Cys Ala Val Arg Val Thr Val Asp Ala Ile Ser
 50 55 60

Val Glu Thr Pro Gln Asp Val Leu Arg Ala Ser Gln Gly Lys Ser Val
 65 70 75 80

Thr Leu Pro Cys Thr Tyr His Thr Ser Thr Ser Ser Arg Glu Gly Leu
 85 90 95

Ile Gln Trp Asp Lys Leu Leu Leu Thr His Thr Glu Arg Val Val Ile
 100 105 110

Trp Pro Phe Ser Asn Lys Asn Tyr Ile His Gly Glu Leu Tyr Lys Asn
 115 120 125

Arg Val Ser Ile Ser Asn Asn Ala Glu Gln Ser Asp Ala Ser Ser Pro
 130 135 140

Leu Ile Ser
 145

5475

<210> 6252

<211> 179

<212> PRT

<213> Homo sapiens

<400> 6252

```

Pro Arg Gly Thr Ser Arg Arg Ser Ala Trp Pro Lys Met Ala Ala Ser
 1             5             10             15

Val Cys Ser Gly Leu Leu Gly Pro Arg Val Leu Ser Trp Ser Arg Glu
          20             25             30

Leu Pro Cys Ala Trp Arg Ala Leu His Thr Ser Pro Val Cys Ala Lys
          35             40             45

Asn Arg Ala Ala Arg Val Arg Val Ser Lys Gly Asp Lys Pro Val Thr
          50             55             60

Tyr Glu Glu Ala His Ala Pro His Tyr Ile Ala His Arg Lys Gly Trp
 65             70             75             80

Leu Ser Leu His Thr Gly Asn Leu Asp Gly Glu Asp His Ala Ala Glu
          85             90             95

Arg Thr Val Glu Asp Val Phe Leu Arg Lys Phe Met Trp Gly Thr Phe
          100            105            110

Pro Gly Cys Leu Ala Asp Gln Leu Val Leu Lys Arg Arg Gly Asn Gln
          115            120            125

Leu Glu Ile Cys Ala Val Val Leu Arg Gln Leu Ser Pro His Lys Tyr
          130            135            140

Tyr Phe Leu Val Gly Tyr Ser Glu Thr Leu Leu Ser Tyr Phe Tyr Lys
          145            150            155            160

Cys Pro Val Arg Leu His Leu Gln Thr Val Pro Ser Lys Val Val Tyr
          165            170            175

Lys Tyr Leu

```

<210> 6253

<211> 288

<212> PRT

<213> Homo sapiens

<400> 6253

```

Glu Ile Arg Val Ser Cys Thr Ala Gly Ala Gly Phe Pro Ala Ala Gln

```

5476

| | | | |
|---|-----|-----|-----|
| 1 | 5 | 10 | 15 |
| Ala Arg Val Arg Cys Leu Cys His Leu Ile Leu Met Ser Gly Glu Ile | 20 | 25 | 30 |
| Ala Met Cys Glu Pro Glu Phe Gly Asn Asp Lys Ala Arg Glu Pro Ser | 35 | 40 | 45 |
| Val Gly Gly Arg Trp Arg Val Ser Trp Tyr Glu Arg Phe Val Gln Pro | 50 | 55 | 60 |
| Cys Leu Val Glu Leu Leu Gly Ser Ala Leu Phe Ile Phe Ile Gly Cys | 65 | 70 | 75 |
| Leu Ser Val Ile Glu Asn Gly Thr Asp Thr Gly Leu Leu Gln Pro Ala | 85 | 90 | 95 |
| Leu Ala His Gly Leu Ala Leu Gly Leu Val Ile Ala Thr Leu Gly Asn | 100 | 105 | 110 |
| Ile Ser Gly Gly His Phe Asn Pro Ala Val Ser Leu Ala Ala Met Leu | 115 | 120 | 125 |
| Ile Gly Gly Leu Asn Leu Val Met Leu Leu Pro Tyr Trp Val Ser Gln | 130 | 135 | 140 |
| Leu Leu Gly Gly Met Leu Gly Ala Ala Leu Ala Lys Ala Val Ser Pro | 145 | 150 | 155 |
| Glu Glu Arg Phe Trp Asn Ala Ser Gly Ala Ala Phe Val Thr Val Gln | 165 | 170 | 175 |
| Glu Gln Gly Gln Val Ala Gly Ala Leu Val Ala Glu Ile Ile Leu Thr | 180 | 185 | 190 |
| Thr Leu Leu Ala Leu Ala Val Cys Met Gly Ala Ile Asn Glu Lys Thr | 195 | 200 | 205 |
| Lys Gly Pro Leu Ala Pro Phe Ser Ile Gly Phe Ala Val Thr Val Asp | 210 | 215 | 220 |
| Ile Leu Ala Gly Gly Pro Val Ser Gly Gly Cys Met Asn Pro Ala Arg | 225 | 230 | 235 |
| Ala Phe Gly Pro Ala Val Val Ala Asn His Trp Asn Phe His Trp Ile | 245 | 250 | 255 |
| Tyr Trp Leu Gly Pro Leu Leu Ala Gly Leu Leu Val Gly Leu Leu Ile | 260 | 265 | 270 |
| Arg Cys Phe Ile Gly Asp Gly Lys Thr Arg Leu Ile Leu Lys Ala Gln | | | |

5477

275

280

285

<210> 6254

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6254

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Thr | Arg | Pro | Thr | Arg | Ala | Pro | Arg | Phe | Ala | Ser | Ala | Ala | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Pro | Lys | Gly | Gly | Asp | Arg | Gly | Gly | Trp | Arg | Gly | Ala | Ala | Arg | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ser | Pro | Gly | Ala | Gly | Pro | Val | Arg | Thr | Ala | Arg | Glu | Gly | Arg | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gly | Arg | Ser | Arg | Pro | Arg | Asp | Ser | Ile | Ser | Ala | Arg | Ser | Asp | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Phe | Pro | Trp | Arg | Ser | Leu | Arg | Ala | Trp | His | Pro | Ala | Gly | Arg |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Thr | Val | Val | Ser | Ser | Ile | Ala | Ser | Leu | Asp | Leu | Ala | Thr | Ile |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Glu | Met | Ser | Ser | Arg | Ser | Thr | Lys | Asp | Leu | Ile | Lys | Ser | Lys | Trp |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Lys | Pro | Ser | Asn | Ser | Lys | Ser | Glu | Thr | Thr | Leu | Glu | Lys | Leu |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Gly | Glu | Ile | Ala | His | Leu | Lys | Thr | Ser | Val | Asp | Glu | Ile | Thr | Ser |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Gly | Lys | Leu | Thr | Asp | Lys | Glu | Arg | Gln | Arg | Phe | Xaa | Glu | Lys |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | |
|-----|-----|-----|-----|-----|
| Ile | Arg | Val | Leu | Glu |
| | | | | 165 |

5478

<210> 6255

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6255

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Gly | Pro | Cys | Pro | Ser | His | Gly | Gln | Arg | Phe | Glu | Ser | Trp | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Cys | Thr | Cys | Val | Trp | Pro | Lys | Ala | Lys | Cys | Ala | Leu | Leu | Arg | Asp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Leu | Val | Leu | Val | Asp | Ser | Pro | Gly | Thr | Asp | Val | Thr | Thr | Glu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ser | Trp | Ile | Asp | Lys | Phe | Cys | Leu | Asp | Ala | Asp | Val | Phe | Val | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Asn | Ser | Glu | Ser | Thr | Leu | Met | Asn | Thr | Glu | Lys | His | Phe | Phe |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Lys | Val | Asn | Glu | Arg | Leu | Ser | Lys | Pro | Asn | Ile | Phe | Ile | Leu | Asn |
| | | | 85 | | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Arg | Trp | Asp | Ala | Ser | Ala | Ser | Glu | Pro | Glu | Tyr | Met | Glu | Asp | Val |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Gln | His | Met | Glu | Arg | Cys | Leu | His | Phe | Leu | Val | Glu | Glu | Leu |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Val | Val | Asn | Ala | Leu | Glu | Ala | Xaa | Asn | Arg | Ile | Phe | Phe | Val | Ser |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Lys | Glu | Val | Leu | Ser | Ala | Arg | Lys | Gln | Lys | Ala | Gln | Gly | Met | Pro |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ser | Gly | Val | Ala | Leu | Ala | Glu | Gly | Phe | His | Ala | Arg | Leu | Gln | Glu |
| | | | | 165 | | | | 170 | | | | | | 175 | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gln | Asn | Phe | Glu | Gln | Ile | Phe | Glu | Val | Gly | Ile | Leu |
| | | 180 | | | | | | 185 | | | | |

5479

<210> 6256

<211> 337

<212> PRT

<213> Homo sapiens

<400> 6256

Arg Pro Asp Leu Ala Thr Met Arg Ala Leu Leu Ala Arg Leu Leu Leu
 1 5 10 15

Cys Val Leu Val Val Ser Asp Ser Lys Gly Ser Asn Glu Leu His Gln
 20 25 30

Val Pro Ser Asn Cys Asp Cys Leu Asn Gly Gly Thr Cys Val Ser Asn
 35 40 45

Lys Tyr Phe Ser Asn Ile His Trp Cys Asn Cys Pro Lys Lys Phe Gly
 50 55 60

Gly Gln His Cys Glu Ile Asp Lys Ser Lys Thr Cys Tyr Glu Gly Asn
 65 70 75 80

Gly His Phe Tyr Arg Gly Lys Ala Ser Thr Asp Thr Met Gly Arg Pro
 85 90 95

Cys Leu Pro Trp Asn Ser Ala Thr Val Leu Gln Gln Thr Tyr His Ala
 100 105 110

His Arg Ser Asp Ala Leu Gln Leu Gly Leu Gly Lys His Asn Tyr Cys
 115 120 125

Arg Asn Pro Asp Asn Arg Arg Arg Pro Trp Cys Tyr Val Gln Val Gly
 130 135 140

Leu Lys Pro Leu Val Gln Glu Cys Met Val His Asp Cys Ala Asp Gly
 145 150 155 160

Lys Lys Pro Ser Ser Pro Pro Glu Glu Leu Lys Phe Gln Cys Gly Gln
 165 170 175

Lys Thr Leu Arg Pro Arg Phe Lys Ile Ile Gly Gly Glu Phe Thr Thr
 180 185 190

Ile Glu Asn Gln Pro Trp Phe Ala Ala Ile Tyr Arg Arg His Arg Gly
 195 200 205

Gly Ser Val Thr Tyr Val Cys Gly Gly Ser Leu Ile Ser Pro Cys Trp
 210 215 220

Val Ile Ser Ala Thr His Cys Phe Ile Asp Tyr Pro Lys Lys Glu Asp
 225 230 235 240

5480

Tyr Ile Val Tyr Leu Gly Arg Ser Arg Leu Asn Ser Asn Thr Gln Gly
 245 250 255
 Glu Met Lys Phe Glu Val Glu Asn Leu Ile Leu His Lys Asp Tyr Ser
 260 265 270
 Ala Asp Thr Leu Ala His His Asn Asp Ile Ala Leu Leu Lys Ile Arg
 275 280 285
 Ser Lys Glu Gly Arg Cys Ala Gln His Pro Gly Leu Tyr Arg Pro Ser
 290 295 300
 Ala Cys Pro Arg Cys Ile Thr Ile Pro Ser Leu Ala Gln Ala Val Arg
 305 310 315 320
 Ser Leu Ala Leu Glu Lys Arg Ile Leu Pro Thr Ile Ser Ile Arg Ser
 325 330 335

Ser

<210> 6257

<211> 89

<212> PRT

<213> Homo sapiens

<400> 6257

Asn Lys Lys Lys Lys Lys Lys Lys Lys Lys Asn Ser Arg Gly Gly Pro
 1 5 10 15
 Val Pro Asn Ser Pro Tyr Ser Glu Ser Tyr Tyr Asn Ser Leu Ala Val
 20 25 30
 Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn
 35 40 45
 Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu
 50 55 60
 Ala Arg Thr Asp Arg Leu Pro Thr Val Ala Gln Pro Glu Trp Arg Met
 65 70 75 80
 Ala Asn Cys Lys Ala Leu Ile Phe Trp
 85

<210> 6258

<211> 370

5481

<212> PRT

<213> Homo sapiens

<400> 6258

Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg
 1 5 10 15

Pro Gly Lys Leu Val Ala Leu Val Leu Leu Gly Val Gly Leu Ser Leu
 20 25 30

Val Gly Glu Met Phe Leu Ala Phe Arg Glu Arg Val Asn Ala Ser Arg
 35 40 45

Glu Val Glu Pro Val Glu Pro Glu Asn Cys His Leu Ile Glu Glu Leu
 50 55 60

Glu Ser Gly Ser Glu Asp Ile Asp Ile Leu Pro Ser Gly Leu Ala Phe
 65 70 75 80

Ile Ser Ser Gly Leu Lys Tyr Pro Gly Met Pro Asn Phe Ala Pro Asp
 85 90 95

Glu Pro Gly Lys Ile Phe Leu Met Asp Leu Asn Glu Gln Asn Pro Arg
 100 105 110

Ala Gln Ala Leu Glu Ile Ser Gly Gly Phe Asp Lys Glu Leu Phe Asn
 115 120 125

Pro His Gly Ile Ser Ile Phe Ile Asp Lys Asp Asn Thr Val Tyr Leu
 130 135 140

Tyr Val Val Asn His Pro His Met Lys Ser Thr Val Glu Ile Phe Lys
 145 150 155 160

Phe Glu Glu Gln Gln Arg Ser Leu Val Tyr Leu Lys Thr Ile Lys His
 165 170 175

Glu Leu Leu Lys Ser Val Asn Asp Ile Val Val Leu Gly Pro Glu Gln
 180 185 190

Phe Tyr Ala Thr Arg Asp His Tyr Phe Thr Asn Ser Leu Leu Ser Phe
 195 200 205

Phe Glu Met Ile Leu Asp Leu Arg Trp Thr Tyr Val Leu Phe Tyr Ser
 210 215 220

Pro Arg Glu Val Lys Val Val Ala Lys Gly Phe Cys Ser Ala Asn Gly
 225 230 235 240

Ile Thr Val Ser Ala Asp Gln Lys Tyr Val Tyr Val Ala Asp Val Ala
 245 250 255

5482

Ala Lys Asn Ile His Ile Met Glu Lys His Asp Asn Trp Asp Leu Thr
 260 265 270

Gln Leu Lys Val Ile Gln Leu Gly Thr Leu Val Asp Asn Leu Thr Val
 275 280 285

Asp Pro Ala Thr Gly Asp Ile Leu Ala Gly Cys His Pro Asn Pro Met
 290 295 300

Lys Leu Leu Asn Tyr Asn Pro Glu Asp Pro Pro Gly Ser Glu Val Leu
 305 310 315 320

Arg Ile Gln Asn Val Leu Ser Glu Lys Pro Arg Val Ser Thr Val Tyr
 325 330 335

Ala Asn Asn Gly Ser Val Leu Gln Gly Thr Ser Val Ala Ser Val Tyr
 340 345 350

His Gly Lys Ile Leu Ile Gly Thr Val Phe His Lys Thr Leu Tyr Cys
 355 360 365

Glu Leu
 370

<210> 6259

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6259

Leu Met Gln Ala Ile Ser Leu Phe Ser Xaa Asp Arg Pro Gly Val Leu
 1 5 10 15

Gln His Arg Val Val Asp Gln Leu Gln Glu Gln Phe Ala Ile Thr Leu
 20 25 30

Lys Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro Ala His Arg Phe Leu
 35 40 45

Phe Leu Lys Ile Met Ala Met Leu Thr Glu Leu Arg Ser Ile Asn Ala
 50 55 60

Gln His Thr Gln Arg Leu Leu Arg Ile Gln Asp Ile His Pro Phe Ala

65 70 75 80

Thr Pro Leu Met Gln Glu Leu Phe Gly Ile Thr Gly Ser

85 90

Pro Ile Gly Xaa Tyr Pro
85

```
<210> 6261
<211> 95
<212> PRT
```

5484

<213> Homo sapiens

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6261

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Phe | Leu | Leu | Glu | Leu | Leu | Val | Leu | Pro | Ala | Ser | Thr | Thr | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Cys | Ser | Ala | Glu | Pro | Leu | Gly | Ala | Glu | Trp | Gln | Glu | Pro | Gln | Gly |
| | | | 20 | | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Pro | Ile | Trp | Val | Trp | Leu | Ala | Gly | Ser | Leu | Thr | Ser | Val | Ile | Cys |
| | | 35 | | | | 40 | | | | | 45 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Leu | Pro | Phe | Gln | Ile | Met | Arg | Ile | Lys | Pro | His | Gln | Gly | Gln | His |
| | 50 | | | | 55 | | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Gly | Glu | Met | Ser | Phe | Leu | Gln | His | Asn | Lys | Cys | Glu | Cys | Arg | Xaa |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Lys | Xaa | Asp | Arg | Ala | Arg | Gln | Glu | Asn | Pro | Cys | Gly | Pro | Xaa | Ser | |
| | | | | 85 | | | | | 90 | | | | | 95 | |

<210> 6262

<211> 127

<212> PRT

<213> Homo sapiens

<400> 6262

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asp | Asn | Asn | Phe | Thr | Gln | Glu | Thr | Ala | Met | Thr | Met | Ile | Thr | Pro |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Lys | Leu | Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser | Thr |
| | | | 20 | | | | | 25 | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Ala | Ala | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5485

35 40 45
 Ser Ala Arg Ala Trp Leu Leu Gln Asn Phe Leu Leu Phe Leu Leu Leu
 50 55 60
 Leu Val Phe Ser Leu Leu Cys Phe Thr Leu Cys Ser Cys Pro Thr Val
 65 70 75 80
 Leu Asp Ile Ile Phe Cys Ser Phe Gln Cys Phe Phe Ser Leu Val Phe
 85 90 95
 Glu Val Ser Asp Asp Lys Ser Ser Ser Ser Glu Ile Leu Tyr Ser Ala
 100 105 110
 Glu Ser Ser Leu Leu Ile Ser His Gln Arg Tyr Ser Ser Val Ile
 115 120 125

<210> 6263
 <211> 247
 <212> PRT
 <213> Homo sapiens

<400> 6263
 Pro Glu Asn Ser Thr Ser Ser Phe Leu Leu Trp Gly Cys Pro Pro Ser
 1 5 10 15
 Val Val Cys Phe Thr Val Gly Ser Pro Ala Arg Arg Pro Gln Cys Phe
 20 25 30
 Leu Arg Ala Glu Met Ala Asn Ser Gly Leu Gln Leu Leu Gly Phe Ser
 35 40 45
 Met Ala Leu Leu Gly Trp Val Gly Leu Val Ala Cys Thr Ala Ile Pro
 50 55 60
 Gln Trp Gln Met Ser Ser Tyr Ala Gly Asp Asn Ile Ile Thr Ala Gln
 65 70 75 80
 Ala Met Tyr Lys Gly Leu Trp Met Asp Cys Val Thr Gln Ser Thr Gly
 85 90 95
 Met Met Ser Cys Lys Met Tyr Asp Ser Val Leu Ala Leu Ser Ala Ala
 100 105 110
 Leu Gln Ala Thr Arg Ala Leu Met Val Val Ser Leu Val Leu Gly Phe
 115 120 125
 Leu Ala Met Phe Val Ala Thr Met Gly Met Lys Cys Thr Arg Cys Gly
 130 135 140

5486

Gly Asp Asp Lys Val Lys Lys Ala Arg Ile Ala Met Gly Gly Gly Ile
 145 150 155 160

Ile Phe Ile Val Ala Gly Leu Ala Ala Leu Val Ala Cys Ser Trp Tyr
 165 170 175

Gly His Gln Ile Val Thr Asp Phe Tyr Asn Pro Leu Ile Pro Thr Asn
 180 185 190

Ile Lys Tyr Glu Phe Gly Pro Ala Ile Phe Ile Gly Trp Ala Gly Ser
 195 200 205

Ala Leu Val Ile Leu Gly Gly Ala Leu Leu Ser Cys Ser Cys Pro Gly
 210 215 220

Asn Glu Ser Lys Ala Gly Tyr Arg Ala Pro Arg Ser Tyr Pro Lys Ser
 225 230 235 240

Asn Ser Ser Lys Glu Tyr Val
 245

<210> 6264

<211> 145

<212> PRT

<213> Homo sapiens

<400> 6264

Pro Asp Ser Val Phe Ser Pro Ala Ala Ser Pro Thr Lys Glu Ile Gln
 1 5 10 15

Val Lys Lys Tyr Lys Cys Gly Leu Ile Lys Pro Cys Pro Ala Asn Tyr
 20 25 30

Phe Ala Phe Lys Ile Cys Ser Gly Ala Ala Asn Val Val Gly Pro Thr
 35 40 45

Met Cys Phe Glu Asp Arg Met Ile Met Ser Pro Val Lys Asn Asn Val
 50 55 60

Gly Arg Gly Leu Asn Ile Ala Leu Val Asn Gly Thr Thr Gly Ala Val
 65 70 75 80

Leu Gly Gln Lys Ala Phe Asp Met Tyr Ser Gly Asp Val Met His Leu
 85 90 95

Val Lys Phe Leu Lys Glu Ile Pro Gly Gly Ala Leu Val Leu Val Ala
 100 105 110

5487

Ser Tyr Asp Asp Pro Gly Thr Lys Met Asn Asp Glu Ser Arg Lys Leu
 115 120 125

Phe Ser Asp Leu Gly Ser Ser Tyr Ala Lys Gln Leu Gly Phe Gly Thr
 130 135 140

Val
 145

<210> 6265
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 6265
 Leu Glu Ser Arg Ser Cys Thr Pro Leu Ile Phe Leu Leu Lys His Leu
 1 5 10 15

Lys Val Tyr Ile Gly Cys Gln Met Ser Asn Ile Thr Tyr Phe Ile Leu
 20 25 30

Phe Ser Ser Asn Leu Tyr Phe Thr Val Val Gln Gly Met Lys Glu Ala
 35 40 45

Gln Glu Arg Leu Thr Gly Asp Ala Phe Arg Lys Lys His Leu Glu Asp
 50 55 60

Glu Leu
 65

<210> 6266
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 6266
 Ala Arg Gly Pro Arg Gly Leu Ala Pro Pro Arg Pro Ala Arg Pro Pro
 1 5 10 15

Pro Gly Gly Met Ser Tyr Lys Pro Asn Leu Ala Ala His Met Pro Ala
 20 25 30

Ala Ala Leu Asn Ala Ala Gly Ser Val His Ser Pro Ser Thr Ser Met
 35 40 45

Ala Thr Ser Ser Gln Tyr Arg Gln Leu Leu Ser Asp Tyr Gly Pro Pro
 50 55 60

5488

Ser Leu Gly Tyr Thr Gln Gly Thr Gly Asn Ser Gln Val Pro Gln Ser
 65 70 75 80
 Lys Tyr Ala Glu Leu Leu Ala Ile Ile Glu Glu Leu Gly Lys Glu Ile
 85 90 95
 Arg Pro Thr Tyr Ala Gly Ser Lys Ser Ala Met Glu Arg Leu Lys Arg
 100 105 110
 Gly Ile Ile His Ala Arg Gly Leu Val Arg Glu Cys Leu Ala Glu Thr
 115 120 125
 Glu Arg Asn Ala Arg Ser
 130

<210> 6267

<211> 201

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6267

Xaa Xaa Leu Thr Lys Gly Asn Lys Ser Xaa Xaa Leu His Arg Gly Val
 1 5 10 15

5489

Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr
 20 25 30
 Ser Ile Gly Thr Gly Gly Phe Ala Lys Val Lys Leu Ala Cys His Ile
 35 40 45
 Leu Thr Gly Glu Met Val Ala Ile Lys Ile Met Asp Lys Asn Thr Leu
 50 55 60
 Gly Ser Asp Leu Pro Arg Ile Lys Thr Glu Ile Glu Ala Leu Lys Asn
 65 70 75 80
 Leu Arg His Gln His Ile Cys Gln Leu Tyr His Val Leu Glu Thr Ala
 85 90 95
 Asn Lys Ile Phe Met Val Leu Glu Tyr Cys Pro Gly Gly Glu Leu Phe
 100 105 110
 Asp Tyr Ile Ile Ser Gln Xaa Arg Leu Ser Glu Glu Glu Thr Arg Val
 115 120 125
 Val Phe Arg Gln Ile Val Ser Ala Val Ala Tyr Val His Ser Gln Gly
 130 135 140
 Tyr Ala His Arg Asp Leu Lys Pro Glu Asn Leu Leu Phe Asp Glu Tyr
 145 150 155 160
 His Lys Leu Lys Leu Ile Asp Phe Gly Leu Cys Ala Lys Pro Lys Gly
 165 170 175
 Asn Lys Asp Tyr His Leu Gln Thr Cys Cys Gly Ser Leu Ala Tyr Ala
 180 185 190
 Ala Pro Glu Leu Ile Gln Gly Lys Ser
 195 200

<210> 6268

<211> 355

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (233)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5490

<222> (264)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (302)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (305)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (313)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (344)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (352)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6268

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Pro | Thr | Arg | Pro | Val | Gln | Tyr | Glu | Leu | Trp | Ala | Ala | Leu | Pro | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Gly | Val | Ala | Leu | Ala | Cys | Cys | Phe | Val | Ala | Ala | Ala | Val | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Arg | Trp | Ser | Gly | Arg | Arg | Thr | Ala | Val | Ala | Arg | Trp | Ser | Gly | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Arg | Gly | Ser | Glu | Arg | Ala | Trp | Arg | Thr | Trp | Thr | Gly | Arg | Arg | Thr |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Arg | Leu | Gln | Asn | Pro | Asp | Leu | Asp | Ser | Glu | Ala | Leu | Leu | Ala | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Pro | Gln | Leu | Val | Gln | Lys | Leu | His | Ser | Arg | Glu | Leu | Ala | Pro |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ala | Val | Leu | Phe | Thr | Tyr | Val | Gly | Lys | Ala | Trp | Glu | Val | Asn | Lys |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Asn | Cys | Val | Thr | Ser | Tyr | Leu | Ala | Asp | Cys | Glu | Thr | Gln | Leu |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5491

| | | |
|---|-----|-----|
| 115 | 120 | 125 |
| Ser Gln Ala Pro Arg Gln Gly Leu Leu Tyr Gly Val Pro Val Ser Leu | | |
| 130 | 135 | 140 |
| Lys Glu Cys Phe Thr Tyr Lys Gly Gln Asp Ser Thr Leu Gly Leu Ser | | |
| 145 | 150 | 155 |
| Leu Asn Glu Gly Val Pro Ala Glu Cys Asp Ser Val Val Val His Val | | |
| 165 | 170 | 175 |
| Leu Lys Leu Gln Gly Ala Val Pro Phe Val His Thr Asn Val Pro Gln | | |
| 180 | 185 | 190 |
| Ser Met Phe Ser Tyr Asp Cys Ser Asn Pro Leu Phe Gly Gln Thr Val | | |
| 195 | 200 | 205 |
| Asn Pro Trp Lys Ser Ser Lys Ser Pro Gly Gly Ser Ser Gly Gly Glu | | |
| 210 | 215 | 220 |
| Gly Ala Leu Ile Gly Ser Gly Gly Xaa Pro Leu Gly Leu Gly Thr Asp | | |
| 225 | 230 | 235 |
| Ile Gly Gly Ser Ile Arg Phe Pro Ser Ser Phe Cys Gly Ile Cys Gly | | |
| 245 | 250 | 255 |
| Leu Lys Pro Thr Gly Asn Pro Xaa Gln Cys Val Ser Pro Trp Ala Pro | | |
| 260 | 265 | 270 |
| Trp Pro Gly Thr Trp Lys Ser Leu Ala Leu Val Pro Ala Asn Pro Ala | | |
| 275 | 280 | 285 |
| Cys Ala Lys Asp Met Phe Pro Leu Gly Pro Asn Val Pro Xaa Leu Pro | | |
| 290 | 295 | 300 |
| Xaa Lys Lys Arg Ser Thr Pro Ser Xaa Asn Pro Cys Val Trp Gly Thr | | |
| 305 | 310 | 315 |
| Met Arg Ile Asp Asn Tyr Thr Met Pro Ser Arg His Glu Ala Ala Leu | | |
| 325 | 330 | 335 |
| Leu Gly Asn Lys Gln Ser Leu Xaa Trp Gly Thr Pro Ala Ser Cys Xaa | | |
| 340 | 345 | 350 |
| Ser Lys Thr | | |
| 355 | | |

<210> 6269

<211> 133

5492

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6269

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Lys | Leu | Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser | Thr | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Xaa | Ser | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Gly | Thr | Phe | Phe | Lys | Met | Glu | Leu | Phe | Glu | Gly | Met | Arg | Glu |
| | | 35 | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Lys | Ile | Ser | Ser | Leu | Leu | Ala | Glu | Leu | Glu | Ala | Ile | Gln | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ala | Ser | Gln | Lys | Ser | Val | Ile | Val | Ser | Gln | Trp | Thr | Asn | Met |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Val | Val | Ala | Leu | His | Leu | Lys | Lys | His | Gly | Leu | Thr | Tyr | Ala |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Asp | Gly | Ser | Val | Asn | Pro | Lys | Gln | Arg | Met | Asp | Leu | Val | Glu |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Phe | Asn | His | Ser | Arg | Gly | Pro | Gln | Val | Met | Leu | Ile | Ser | Leu | Leu |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Ala | Gly | Val | Leu | Val |
| | | | | 130 |

<210> 6270

<211> 466

<212> PRT

<213> Homo sapiens

<400> 6270

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Thr | Val | Met | Gly | Arg | Lys | Lys | Lys | Lys | Gln | Leu | Lys | Pro | Trp | Cys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

5493

Trp Tyr Cys Asn Arg Asp Phe Asp Asp Glu Lys Ile Leu Ile Gln His
 20 25 30
 Gln Lys Ala Lys His Phe Lys Cys His Ile Cys His Lys Lys Leu Tyr
 35 40 45
 Thr Gly Pro Gly Leu Ala Ile His Cys Met Gln Val His Lys Glu Thr
 50 55 60
 Ile Asp Ala Val Pro Asn Ala Ile Pro Gly Arg Thr Asp Ile Glu Leu
 65 70 75 80
 Glu Ile Tyr Gly Met Glu Gly Ile Pro Glu Lys Asp Met Asp Glu Arg
 85 90 95
 Arg Arg Leu Leu Glu Gln Lys Thr Gln Glu Ser Gln Lys Lys Lys Gln
 100 105 110
 Gln Asp Asp Ser Asp Glu Tyr Asp Asp Asp Asp Ser Ala Ala Ser Thr
 115 120 125
 Ser Phe Gln Pro Gln Pro Val Gln Pro Gln Gln Gly Tyr Ile Pro Pro
 130 135 140
 Met Ala Gln Pro Gly Leu Pro Pro Val Pro Gly Ala Pro Gly Met Pro
 145 150 155 160
 Pro Gly Ile Pro Pro Leu Met Pro Gly Val Pro Pro Leu Met Pro Gly
 165 170 175
 Met Pro Pro Val Met Pro Gly Met Pro Pro Gly Leu His His Gln Arg
 180 185 190
 Lys Tyr Thr Gln Ser Phe Cys Gly Glu Asn Ile Met Met Pro Met Gly
 195 200 205
 Gly Met Met Pro Pro Gly Pro Gly Ile Pro Pro Leu Met Pro Gly Met
 210 215 220
 Pro Pro Gly Met Pro Pro Pro Val Pro Arg Pro Gly Ile Pro Pro Met
 225 230 235 240
 Thr Gln Ala Gln Ala Val Ser Ala Pro Gly Ile Leu Asn Arg Pro Pro
 245 250 255
 Ala Pro Thr Ala Thr Val Pro Ala Pro Gln Pro Pro Val Thr Lys Pro
 260 265 270
 Leu Phe Pro Ser Ala Gly Gln Ala Gln Ala Ala Val Gln Gly Pro Val
 275 280 285

5494

Gly Thr Asp Phe Lys Pro Leu Asn Ser Thr Pro Ala Thr Thr Thr Glu
 290 295 300
 Pro Pro Lys Pro Thr Phe Pro Ala Tyr Thr Gln Ser Thr Ala Ser Thr
 305 310 315 320
 Thr Ser Thr Thr Asn Ser Thr Ala Ala Lys Pro Ala Ala Ser Ile Thr
 325 330 335
 Ser Lys Pro Ala Thr Leu Thr Thr Thr Ser Ala Thr Ser Lys Leu Ile
 340 345 350
 His Pro Asp Glu Asp Ile Ser Leu Glu Glu Arg Arg Ala Gln Leu Pro
 355 360 365
 Lys Tyr Gln Arg Asn Leu Pro Arg Pro Gly Gln Ala Pro Ile Gly Asn
 370 375 380
 Pro Pro Val Gly Pro Ile Gly Gly Met Met Pro Pro Gln Pro Gly Ile
 385 390 395 400
 Pro Gln Gln Gln Gly Met Arg Pro Pro Met Pro Pro His Gly Gln Tyr
 405 410 415
 Gly Gly His His Gln Gly Met Pro Gly Tyr Leu Pro Gly Ala Met Pro
 420 425 430
 Pro Tyr Gly Gln Gly Pro Pro Met Val Pro Pro Tyr Gln Gly Gly Pro
 435 440 445
 Pro Arg Pro Pro Met Gly Met Arg Pro Pro Val Met Ser Gln Gly Gly
 450 455 460
 Arg Tyr
 465

<210> 6271

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5495

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6271

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Thr | Ala | Leu | Ser | Ala | Phe | Thr | Ala | Ile | Pro | Ala | Val | Leu | Ala | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ala | Met | Gly | Leu | Glu | Leu | Phe | Leu | Asp | Leu | Val | Ser | Gln | Pro | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ala | Val | Tyr | Ile | Phe | Ala | Lys | Lys | Asn | Gly | Ile | Pro | Leu | Glu | Leu |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Thr | Val | Asp | Leu | Val | Lys | Gly | Gly | Pro | Ser | Pro | Phe | Pro | Arg | Val |
| | | | 50 | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Asn | Pro | Val | Xaa | Pro | Gln | Ala | Pro | Ala | Cys | Ser | Ala | Leu | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Pro | Pro | His | Ser | Pro | Ser | Pro | Pro | Pro | Ala | Ala | Ser | Ala | Thr |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Arg | Glu | Cys | Cys | Gly | Leu | Ser | Gly | Leu | Glu | Gly | Ser | Gln | Xaa | Xaa | |
| | | | 100 | | | | | 105 | | | | | 110 | | |

<210> 6272

<211> 670

<212> PRT

<213> Homo sapiens

<400> 6272

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Pro | Ser | Ala | Ser | Gln | Val | Arg | Ala | Ser | Leu | Pro | Glu | Pro | Arg | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ala | Ala | Ala | Met | Ala | Ser | Asn | Met | Asp | Arg | Glu | Met | Ile | Leu | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Phe | Gln | Ala | Cys | Thr | Gly | Ile | Glu | Asn | Ile | Asp | Glu | Ala | Ile | Thr |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Glu | Gln | Asn | Asn | Trp | Asp | Leu | Val | Ala | Ala | Ile | Asn | Gly | Val |
| | | | 50 | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Pro | Gln | Glu | Asn | Gly | Ile | Leu | Gln | Ser | Glu | Tyr | Gly | Gly | Glu | Thr |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5496

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65 | | 70 | | 75 | | 80 | | | | | | | | | |
| Ile | Pro | Gly | Pro | Ala | Phe | Asn | Pro | Ala | Ser | His | Pro | Ala | Ser | Ala | Pro |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Thr | Ser | Ser | Ser | Ser | Ser | Ala | Phe | Arg | Pro | Val | Met | Pro | Ser | Arg | Gln |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Ile | Val | Glu | Arg | Gln | Pro | Arg | Met | Leu | Asp | Phe | Arg | Val | Glu | Tyr | Arg |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asp | Arg | Asn | Val | Asp | Val | Val | Leu | Glu | Asp | Thr | Cys | Thr | Val | Gly | Glu |
| | | 130 | | | | 135 | | | | | 140 | | | | |
| Ile | Lys | Gln | Ile | Leu | Glu | Asn | Glu | Leu | Gln | Ile | Pro | Val | Ser | Lys | Met |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Leu | Leu | Lys | Gly | Trp | Lys | Thr | Gly | Asp | Val | Glu | Asp | Ser | Thr | Val | Leu |
| | | | 165 | | | | | 170 | | | | | | 175 | |
| Lys | Ser | Leu | His | Leu | Pro | Lys | Asn | Asn | Ser | Leu | Tyr | Val | Leu | Thr | Pro |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Asp | Leu | Pro | Pro | Pro | Ser | Ser | Ser | Ser | His | Ala | Gly | Ala | Leu | Gln | Glu |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Ser | Leu | Asn | Gln | Asn | Phe | Met | Leu | Ile | Ile | Thr | His | Arg | Glu | Val | Gln |
| | | 210 | | | | 215 | | | | | 220 | | | | |
| Arg | Glu | Tyr | Asn | Leu | Asn | Phe | Ser | Gly | Ser | Ser | Thr | Ile | Gln | Glu | Val |
| 225 | | | | | 230 | | | | | 235 | | | | 240 | |
| Lys | Arg | Asn | Val | Tyr | Asp | Leu | Thr | Ser | Ile | Pro | Val | Arg | His | Gln | Leu |
| | | | 245 | | | | | | 250 | | | | | 255 | |
| Trp | Glu | Gly | Trp | Pro | Thr | Ser | Ala | Thr | Asp | Asp | Ser | Met | Cys | Leu | Ala |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Glu | Ser | Gly | Leu | Ser | Tyr | Pro | Cys | His | Arg | Leu | Thr | Val | Gly | Arg | Arg |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Ser | Ser | Pro | Ala | Gln | Thr | Arg | Glu | Gln | Ser | Glu | Glu | Gln | Ile | Thr | Asp |
| | | 290 | | | | 295 | | | | | 300 | | | | |
| Val | His | Met | Val | Ser | Asp | Ser | Asp | Gly | Asp | Asp | Phe | Glu | Asp | Ala | Thr |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| Glu | Phe | Gly | Val | Asp | Asp | Gly | Glu | Val | Phe | Gly | Met | Ala | Ser | Ser | Ala |
| | | | 325 | | | | | | 330 | | | | | 335 | |
| Leu | Arg | Lys | Ser | Pro | Met | Met | Pro | Glu | Asn | Ala | Glu | Asn | Glu | Gly | Asp |

5497

| | | |
|---|-----|-----|
| 340 | 345 | 350 |
| Ala Leu Leu Gln Phe Thr Ala Glu Phe Ser Ser Arg Tyr Gly Asp Cys | | |
| 355 | 360 | 365 |
| His Pro Val Phe Phe Ile Gly Ser Leu Glu Ala Ala Phe Gln Glu Ala | | |
| 370 | 375 | 380 |
| Phe Tyr Val Lys Ala Arg Asp Arg Lys Leu Leu Ala Ile Tyr Leu His | | |
| 385 | 390 | 395 |
| His Asp Glu Ser Val Leu Thr Asn Val Phe Cys Ser Gln Met Leu Cys | | |
| 405 | 410 | 415 |
| Ala Glu Ser Ile Val Ser Tyr Leu Ser Gln Asn Phe Ile Thr Trp Ala | | |
| 420 | 425 | 430 |
| Trp Asp Leu Thr Lys Asp Ser Asn Arg Ala Arg Phe Leu Thr Met Cys | | |
| 435 | 440 | 445 |
| Asn Arg His Phe Gly Ser Val Val Ala Gln Thr Ile Arg Thr Gln Lys | | |
| 450 | 455 | 460 |
| Thr Asp Gln Phe Pro Leu Phe Leu Ile Ile Met Gly Lys Arg Ser Ser | | |
| 465 | 470 | 475 |
| Asn Glu Val Leu Asn Val Ile Gln Gly Asn Thr Thr Val Asp Glu Leu | | |
| 485 | 490 | 495 |
| Met Met Arg Leu Met Ala Ala Met Glu Ile Phe Thr Ala Gln Gln Gln | | |
| 500 | 505 | 510 |
| Glu Asp Ile Lys Asp Glu Asp Glu Arg Glu Ala Arg Glu Asn Val Lys | | |
| 515 | 520 | 525 |
| Arg Glu Gln Asp Glu Ala Tyr Arg Leu Ser Leu Glu Ala Asp Arg Ala | | |
| 530 | 535 | 540 |
| Lys Arg Glu Ala His Glu Arg Glu Met Ala Glu Gln Phe Arg Leu Glu | | |
| 545 | 550 | 555 |
| Gln Ile Arg Lys Glu Gln Glu Glu Glu Arg Glu Ala Ile Arg Leu Ser | | |
| 565 | 570 | 575 |
| Leu Glu Gln Ala Leu Pro Pro Glu Pro Lys Glu Glu Asn Ala Glu Pro | | |
| 580 | 585 | 590 |
| Val Ser Lys Leu Arg Ile Arg Thr Pro Ser Gly Glu Phe Leu Glu Arg | | |
| 595 | 600 | 605 |
| Arg Phe Leu Ala Ser Asn Lys Leu Gln Ile Val Phe Asp Phe Val Ala | | |

5498

610 615 620
 Ser Lys Gly Phe Pro Trp Asp Glu Tyr Lys Leu Leu Ser Thr Phe Pro
 625 630 635 640
 Arg Arg Asp Val Thr Gln Leu Asp Pro Asn Lys Ser Leu Leu Glu Val
 645 650 655
 Lys Leu Phe Pro Gln Glu Thr Leu Phe Leu Glu Ala Lys Glu
 660 665 670

<210> 6273
 <211> 496
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6273
 Pro Thr Arg Xaa Pro Thr Arg Pro Ala Arg Gly Trp Glu Ala Ile Thr
 1 5 10 15
 Tyr Leu Ala Leu Arg Lys Lys Thr Lys Ala Ser Met His Ser Phe Pro
 20 25 30
 Pro Leu Leu Leu Leu Leu Phe Trp Gly Val Val Ser His Ser Phe Pro
 35 40 45
 Ala Thr Leu Glu Thr Gln Glu Gln Asp Val Asp Leu Val Gln Lys Tyr
 50 55 60
 Leu Glu Lys Tyr Tyr Asn Leu Lys Asn Asp Gly Arg Gln Val Glu Lys
 65 70 75 80
 Arg Arg Asn Ser Gly Pro Val Val Glu Lys Leu Lys Gln Met Gln Glu
 85 90 95
 Phe Phe Gly Leu Lys Val Thr Gly Lys Pro Asp Ala Glu Thr Leu Lys
 100 105 110
 Val Met Lys Gln Pro Arg Cys Gly Val Pro Asp Val Ala Gln Phe Val
 115 120 125
 Leu Thr Glu Gly Asn Pro Arg Trp Glu Gln Thr His Leu Thr Tyr Arg
 130 135 140

5499

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Ile | Glu | Asn | Tyr | Thr | Pro | Asp | Leu | Pro | Arg | Ala | Asp | Val | Asp | His | Ala | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| Ile | Glu | Lys | Ala | Phe | Gln | Leu | Trp | Ser | Asn | Val | Thr | Pro | Leu | Thr | Phe | |
| | | | | 165 | | | | | 170 | | | | | | 175 | |
| Thr | Lys | Val | Ser | Glu | Gly | Gln | Ala | Asp | Ile | Met | Ile | Ser | Phe | Val | Arg | |
| | | | 180 | | | | | 185 | | | | | | 190 | | |
| Gly | Asp | His | Arg | Asp | Asn | Ser | Pro | Phe | Asp | Gly | Pro | Gly | Gly | Asn | Leu | |
| | | 195 | | | | | 200 | | | | | 205 | | | | |
| Ala | His | Ala | Phe | Gln | Pro | Gly | Pro | Gly | Ile | Gly | Gly | Asp | Ala | His | Phe | |
| | 210 | | | | | 215 | | | | | 220 | | | | | |
| Asp | Glu | Asp | Glu | Arg | Trp | Thr | Asn | Asn | Phe | Arg | Glu | Tyr | Asn | Leu | His | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | |
| Arg | Val | Ala | Ala | His | Glu | Leu | Gly | His | Ser | Leu | Gly | Leu | Ser | His | Ser | |
| | | | | 245 | | | | | 250 | | | | | | 255 | |
| Thr | Asp | Ile | Gly | Ala | Leu | Met | Tyr | Pro | Ser | Tyr | Thr | Phe | Ser | Gly | Asp | |
| | | | 260 | | | | | 265 | | | | | | 270 | | |
| Val | Gln | Leu | Ala | Gln | Asp | Asp | Ile | Asp | Gly | Ile | Gln | Ala | Ile | Tyr | Gly | |
| | | 275 | | | | | 280 | | | | | 285 | | | | |
| Arg | Ser | Gln | Asn | Pro | Val | Gln | Pro | Ile | Gly | Pro | Gln | Thr | Pro | Lys | Ala | |
| | 290 | | | | | 295 | | | | | 300 | | | | | |
| Cys | Asp | Ser | Lys | Leu | Thr | Phe | Asp | Ala | Ile | Thr | Thr | Ile | Arg | Gly | Glu | |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 | |
| Val | Met | Phe | Phe | Lys | Asp | Arg | Phe | Tyr | Met | Arg | Thr | Asn | Pro | Phe | Tyr | |
| | | | | 325 | | | | | 330 | | | | | 335 | | |
| Pro | Glu | Val | Glu | Leu | Asn | Phe | Ile | Ser | Val | Phe | Trp | Pro | Gln | Leu | Pro | |
| | | | 340 | | | | | 345 | | | | | 350 | | | |
| Asn | Gly | Leu | Glu | Ala | Ala | Tyr | Glu | Phe | Ala | Asp | Arg | Asp | Glu | Val | Arg | |
| | | 355 | | | | | 360 | | | | | 365 | | | | |
| Phe | Phe | Lys | Gly | Asn | Lys | Tyr | Trp | Ala | Val | Gln | Gly | Gln | Asn | Val | Leu | |
| | 370 | | | | | 375 | | | | | 380 | | | | | |
| His | Gly | Tyr | Pro | Lys | Asp | Ile | Tyr | Ser | Ser | Phe | Gly | Phe | Pro | Arg | Thr | |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 | |
| Val | Lys | His | Ile | Asp | Ala | Ala | Leu | Ser | Glu | Glu | Asn | Thr | Gly | Lys | Thr | |
| | | | | 405 | | | | | 410 | | | | | 415 | | |

5500

Tyr Phe Phe Val Ala Asn Lys Tyr Trp Arg Tyr Asp Glu Tyr Lys Arg
420 425 430

Ser Met Asp Pro Gly Tyr Pro Lys Met Ile Ala His Asp Phe Pro Gly
435 440 445

Ile Gly His Lys Val Asp Ala Val Phe Met Lys Asp Gly Phe Phe Tyr
450 455 460

Phe Phe His Gly Thr Arg Gln Tyr Lys Phe Asp Pro Lys Thr Lys Arg
465 470 475 480

Ile Leu Thr Leu Gln Lys Ala Asn Ser Trp Phe Asn Cys Arg Lys Asn
485 490 495

<210> 6274

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6274

5501

Arg Leu Pro Arg Gln Lys Ser Arg Xaa Lys Leu Ser Xaa Ser His Val
 1 5 10 15
 Thr Gln Xaa Arg Leu Ile Lys Phe Phe Xaa Leu Phe Pro Ile Ile Phe
 20 25 30
 Xaa Met Ser Lys Leu Thr Lys Arg Ser Lys Gly Phe Leu Gly Leu Leu
 35 40 45
 Thr Ser Ser Val Glu Ile Leu Val Leu Cys Gly Gln Gly Lys Ala Lys
 50 55 60
 Ala Phe Leu Phe Ser Leu Cys Tyr Leu Glu Asp Arg Lys Thr Ser Cys
 65 70 75 80
 Leu His Pro Leu Ala Val Cys Arg Ile Thr Leu Ser Leu Arg Tyr
 85 90 95

<210> 6275
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 6275
 Arg Pro Pro Ile Ser Ser Ala Gly His Leu Pro Gly Val Cys Lys Val
 1 5 10 15
 Ser Thr Asp Leu Leu Arg Glu Gly Ala Pro Ile Glu Pro Asp Pro Pro
 20 25 30
 Val Ser His Trp Lys Pro Glu Ala Val Gln Tyr Tyr Glu Asp Gly Ala
 35 40 45
 Arg Ile Glu Ala Ala Phe Arg Asn Tyr Ile His Arg Ala Asp Ala Arg
 50 55 60
 Gln Glu Glu Asp Ser Tyr Glu Ile Phe Ile Cys His Ala Asn Val Ile
 65 70 75 80
 Arg Tyr Ile Val Cys Arg Ala Leu Gln Phe Pro Pro Glu Gly Trp Leu
 85 90 95
 Arg Leu Ser Leu Asn Asn Gly Ser Ile Thr His Leu Val Ile Arg Pro
 100 105 110
 Asn Gly Arg Val Ala Leu Arg Thr Leu Gly Asp Thr Gly Phe Met Pro
 115 120 125
 Pro Asp Lys Ile Thr Arg Ser

5502

130

135

<210> 6276

<211> 159

<212> PRT

<213> Homo sapiens

<400> 6276

Thr Ser His Ala Arg Phe Gln Ala Leu His Ala Thr Gly Ser Val Leu
 1 5 10 15

Ala Ala Ser Ser Leu Ser Trp Asn Ser Ser Ser Gln Leu Leu Leu Pro
 20 25 30

Glu Phe Gln Gly Glu Pro Pro Ser Ala Pro Ser Glu Tyr Ala Gly Leu
 35 40 45

Val Val Arg Thr Val Leu Glu Pro Val Leu Gln Gly Leu Gln Gly Leu
 50 55 60

Pro Pro Gln Ala Gln Ala Pro Ala Leu Gly Gln Ala Leu Thr Ala Ile
 65 70 75 80

Val Gly Ala Trp Leu Asp His Ile Leu Thr His Gly Ile Arg Phe Arg
 85 90 95

Ser Gly Val Lys Val Glu Val Ala Gly Gly Glu Trp Asn Trp Glu Lys
 100 105 110

Glu Gly Asp Lys Trp Glu Arg Gln Glu Gly Gln Val Ala Ile Leu Tyr
 115 120 125

Leu Cys Leu Gln Pro Ala Gly Ser Ala Ala Ala Gln Thr Arg Leu Trp
 130 135 140

Ser Gly Gln Gly Val Ala Gly Arg Gly Ala Val Glu Pro Val Pro
 145 150 155

<210> 6277

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

5503

<400> 6277

Ala Gln Gly Ala Ala Trp Xaa Cys Gln Ser Pro Gly Pro Arg Ala Leu
 1 5 10 15

Leu Glu Arg Arg Gln Thr Glu Ala Ala Gly Pro Ala Ser Arg Arg Arg
 20 25 30

Gly Glu Met Ser Asp Cys Tyr Thr Glu Leu Glu Lys Ala Val Ile Val
 35 40 45

Leu Val Glu Asn Phe Tyr Lys Tyr Val Ser Lys Tyr Ser Leu Val Lys
 50 55 60

Asn Lys Ile Ser Lys Ser Ser Phe Arg Glu Met Leu Gln Lys Glu Leu
 65 70 75 80

Asn His Met Leu Ser His Cys
 85

<210> 6278

<211> 383

<212> PRT

<213> Homo sapiens

<400> 6278

His Ala Ser Ala His Ala Ser Gly Ala Leu Pro Gly Leu Thr Ala Thr
 1 5 10 15

Pro Glu Ala Met Leu Arg Phe Leu Pro Asp Leu Ala Phe Ser Phe Leu
 20 25 30

Leu Ile Leu Ala Leu Gly Gln Ala Val Gln Phe Gln Glu Tyr Val Phe
 35 40 45

Leu Gln Phe Leu Gly Leu Asp Lys Ala Pro Ser Pro Gln Lys Phe Gln
 50 55 60

Pro Val Pro Tyr Ile Leu Lys Lys Ile Phe Gln Asp Arg Glu Ala Ala
 65 70 75 80

Ala Thr Thr Gly Val Ser Arg Asp Leu Cys Tyr Val Lys Glu Leu Gly
 85 90 95

Val Arg Gly Asn Val Leu Arg Phe Leu Pro Asp Gln Gly Phe Phe Leu
 100 105 110

Tyr Pro Lys Lys Ile Ser Gln Ala Ser Ser Cys Leu Gln Lys Leu Leu
 115 120 125

5504

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Phe | Asn | Leu | Ser | Ala | Ile | Lys | Glu | Arg | Glu | Gln | Leu | Thr | Leu | Ala | 130 | 135 | 140 | |
| Gln | Leu | Gly | Leu | Asp | Leu | Gly | Pro | Asn | Ser | Tyr | Tyr | Asn | Leu | Gly | Pro | 145 | 150 | 155 | 160 |
| Glu | Leu | Glu | Leu | Ala | Leu | Phe | Leu | Val | Gln | Glu | Pro | His | Val | Trp | Gly | 165 | 170 | 175 | |
| Gln | Thr | Thr | Pro | Lys | Pro | Gly | Lys | Met | Phe | Val | Leu | Arg | Ser | Val | Pro | 180 | 185 | 190 | |
| Trp | Pro | Gln | Gly | Ala | Val | His | Phe | Asn | Leu | Leu | Asp | Val | Ala | Lys | Asp | 195 | 200 | 205 | |
| Trp | Asn | Asp | Asn | Pro | Arg | Lys | Asn | Phe | Gly | Leu | Phe | Leu | Glu | Ile | Leu | 210 | 215 | 220 | |
| Val | Lys | Glu | Asp | Arg | Asp | Ser | Gly | Val | Asn | Phe | Gln | Pro | Glu | Asp | Thr | 225 | 230 | 235 | 240 |
| Cys | Ala | Arg | Leu | Arg | Cys | Ser | Leu | His | Ala | Ser | Leu | Leu | Val | Val | Thr | 245 | 250 | 255 | |
| Leu | Asn | Pro | Asp | Gln | Cys | His | Pro | Ser | Arg | Lys | Arg | Arg | Ala | Ala | Ile | 260 | 265 | 270 | |
| Pro | Val | Pro | Lys | Leu | Ser | Cys | Lys | Asn | Leu | Cys | His | Arg | His | Gln | Leu | 275 | 280 | 285 | |
| Phe | Ile | Asn | Phe | Arg | Asp | Leu | Gly | Trp | His | Lys | Trp | Ile | Ile | Ala | Pro | 290 | 295 | 300 | |
| Lys | Gly | Phe | Met | Ala | Asn | Tyr | Cys | His | Gly | Glu | Cys | Pro | Phe | Ser | Leu | 305 | 310 | 315 | 320 |
| Thr | Ile | Ser | Leu | Asn | Ser | Ser | Asn | Tyr | Ala | Phe | Met | Gln | Ala | Leu | Met | 325 | 330 | 335 | |
| His | Ala | Val | Asp | Pro | Glu | Ile | Pro | Gln | Ala | Val | Cys | Ile | Pro | Thr | Lys | 340 | 345 | 350 | |
| Leu | Ser | Pro | Ile | Ser | Met | Leu | Tyr | Gln | Asp | Asn | Asn | Asp | Asn | Val | Ile | 355 | 360 | 365 | |
| Leu | Arg | His | Tyr | Glu | Asp | Met | Val | Val | Asp | Glu | Cys | Gly | Cys | Gly | | 370 | 375 | 380 | |

5505

<210> 6279

<211> 70

<212> PRT

<213> Homo sapiens

<400> 6279

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Gln | Arg | Arg | Lys | Gly | Gly | Gly | Asn | Asp | Ser | Arg | Pro | Lys | Trp | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Leu | Glu | Asp | Thr | Ser | Asp | Asp | Asn | His | Cys | Tyr | Val | Cys | Ala | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Phe | Asn | Ser | Ala | Val | Tyr | Val | Val | Asp | Lys | Leu | Tyr | Glu | Ile | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Ser | Arg | Tyr | Leu | Glu | Val | Leu | Asp | Val | Phe | Lys | Ser | Gly | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Arg | Ile | Thr | Leu | Cys | Lys |
| 65 | | | | 70 | |

<210> 6280

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6280

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Thr | Asn | Ile | Phe | Tyr | Val | Val | Asn | Ser | Ile | Lys | Leu | Ala | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gly | Lys | Lys | Lys | Lys | Lys | Lys | Asn | Ser | Arg | Gly | Gly | Pro | Xaa |
| | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asn | Ser | Pro | Tyr | Ser | Glu | Ser | Xaa | Tyr | Asn | Ser | Leu | Ala | Val | Val |
| | | 35 | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Pro | Gly | Val | Thr | Gln | Leu | Asn | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |

5506

Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala
 65 70 75 80
 Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp
 85 90 95
 Gln Ile Val Ser Val Asn Ile Leu Leu Lys Phe Ala Leu Asn Phe Cys
 100 105 110

<210> 6281

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6281

Asn Leu Gly Thr Leu Lys Lys Glu Gln Asp Asn Ser Tyr Val Gln Gly
 1 5 10 15
 Thr Arg Glu Ile Thr Ile Arg Ser Gly Cys Leu Xaa Ala Arg Gln Asn
 20 25 30
 Arg Thr Ile Phe Leu Phe Phe Gln Lys Gln Ile Gly Glu Ile Ser Leu
 35 40 45
 Asn Ser Phe Ser Gln Gln Arg Thr Ala Trp Arg Lys Arg Val Cys Ser
 50 55 60

<210> 6282

<211> 469

<212> PRT

<213> Homo sapiens

<400> 6282

Val Arg Gly Leu Ser Gly Ser Cys Pro Gly Cys Ser Pro Leu Glu Pro
 1 5 10 15

5507

Gly Ser Arg Gly Arg Gly Ala Ala Ala Trp Arg Ile Leu Arg Cys Arg
 20 25 30

Arg Leu Pro Glu Pro Ser Pro Phe Leu Thr Gln Pro Asn Leu Ala Gln
 35 40 45

Ser Gln Pro Pro Ala Pro Val Pro Val Thr Asp Pro Ser Val Thr Met
 50 55 60

His Pro Ala Val Phe Leu Ser Leu Pro Asp Leu Arg Cys Ser Leu Leu
 65 70 75 80

Leu Leu Val Thr Trp Val Phe Thr Pro Val Thr Thr Glu Ile Thr Ser
 85 90 95

Leu Asp Thr Glu Asn Ile Asp Glu Ile Leu Asn Asn Ala Asp Val Ala
 100 105 110

Leu Val Asn Phe Tyr Ala Asp Trp Cys Arg Phe Ser Gln Met Leu His
 115 120 125

Pro Ile Phe Glu Glu Ala Ser Asp Val Ile Lys Glu Glu Phe Pro Asn
 130 135 140

Glu Asn Gln Val Val Phe Ala Arg Val Asp Cys Asp Gln His Ser Asp
 145 150 155 160

Ile Ala Gln Arg Tyr Arg Ile Ser Lys Tyr Pro Thr Leu Lys Leu Phe
 165 170 175

Arg Asn Gly Met Met Met Lys Arg Glu Tyr Arg Gly Gln Arg Ser Val
 180 185 190

Lys Ala Leu Ala Asp Tyr Ile Arg Gln Gln Lys Ser Asp Pro Ile Gln
 195 200 205

Glu Ile Arg Asp Leu Ala Glu Ile Thr Thr Leu Asp Arg Ser Lys Arg
 210 215 220

Asn Ile Ile Gly Tyr Phe Glu Gln Lys Asp Ser Asp Asn Tyr Arg Val
 225 230 235 240

Phe Glu Arg Val Ala Asn Ile Leu His Asp Asp Cys Ala Phe Leu Ser
 245 250 255

Ala Phe Gly Asp Val Ser Lys Pro Glu Arg Tyr Ser Gly Asp Asn Ile
 260 265 270

Ile Tyr Lys Pro Pro Gly His Ser Ala Pro Asp Met Val Tyr Leu Gly
 275 280 285

5508

Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys Cys
 290 295 300
 Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu Thr
 305 310 315 320
 Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp Thr
 325 330 335
 Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile Ser
 340 345 350
 Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe Arg
 355 360 365
 His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val Ile
 370 375 380
 Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys Asp
 385 390 395 400
 Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His Ser
 405 410 415
 Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp Thr
 420 425 430
 Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu Ser
 435 440 445
 Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu Arg
 450 455 460
 Asp Arg Asp Glu Leu
 465

<210> 6283

<211> 172

<212> PRT

<213> Homo sapiens

<400> 6283

Pro Arg Gly Ala Arg Gln Asp Thr Glu Ala Gly Ser Pro Trp Cys Ser
 1 5 10 15

Tyr Arg His Gly Pro Leu Ser Ser Arg Gln Asp Cys Pro Arg Ala Trp
 20 25 30

Gln Trp Arg Gln Pro His Arg Pro Gly His Leu Gln Asp Val Pro Pro

5509

35 40 45
 Pro Gly Ile His Leu Gln Arg Leu Ser Gln Pro Gly Pro Arg Glu Ala
 50 55 60
 Leu Arg Glu Cys Pro Ser Gln Trp Pro Leu Ile Arg Gly Arg His Leu
 65 70 75 80
 Cys Gln Leu Arg Gln Pro Gln Gly Asp Ser Gly Pro Ala Gly Leu Gly
 85 90 95
 Arg Arg Asp Gly Pro Ser Ala Phe Cys His Pro Ala Arg Cys Cys His
 100 105 110
 Cys Ser Arg Gln Cys Pro Ala Pro Gly Leu Cys Ala Gly Gly Val Leu
 115 120 125
 Ala Ala Leu Pro Ser Ser Gly Leu Trp Glu Lys Gly Thr Met Asp Ala
 130 135 140
 Val Gly His Gly His Asp Gly Ala Ser Arg Arg Val Thr Leu Gly Leu
 145 150 155 160
 Gln Gly Asp Ile Lys Gly Gln Gly Cys Leu Leu Arg
 165 170

<210> 6284

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6284

Pro Ser Pro Pro Ser Pro Pro Cys Asn Thr Thr Ala Leu Gly Ala Leu
 1 5 10 15
 Ser Thr Ser Ile Met Gly Pro Arg Pro His Ala Tyr Phe Gly Pro Glu
 20 25 30
 Ala Ser Ala Ser Lys Phe Lys Leu Leu His Pro Asp Phe Ile Ser Tyr
 35 40 45
 Leu Thr Glu Arg Phe Leu Lys Ser Lys Leu Ile Asn Thr His Phe Gly
 50 55 60

5510

Asp Leu Tyr Met Pro Ser Thr Gly Ala Leu Met Leu Leu Thr Ala Xaa
 65 70 75 80

His Thr Cys Asp Gln Val Ser Ala Tyr Gly Phe Ile Thr Ser Asn Tyr
 85 90 95

Trp Lys Phe Ser Asp His Tyr Phe Glu Arg Lys Met Lys Pro Leu Ile
 100 105 110

Phe Tyr Ala Asn His Asp Leu Ser Leu Glu Ala Ala Leu Trp Arg Asp
 115 120 125

Leu His Lys Ala Gly Ile Leu Gln Leu Tyr Gln Arg
 130 135 140

<210> 6285

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6285

Ile Tyr Cys Ala Leu Leu Gly Cys Met Asp Asp Tyr Thr Thr Asp Ser
 1 5 10 15

Arg Gly Asp Val Gly Thr Trp Val Arg Lys Ala Ala Met Thr Ser Leu
 20 25 30

Met Asp Leu Thr Leu Leu Leu Ala Arg Ser Gln Pro Glu Leu Ile Glu
 35 40 45

5511

Ala His Thr Cys Glu Arg Ile Met Cys Cys Val Ala Gln Gln Ala Ser
 50 55 60

Glu Lys Ile Asp Arg Phe Arg Ala His Ala Ala Ser Val Phe Leu Thr
 65 70 75 80

Leu Leu His Phe Asp Ser Pro Pro Ile Pro His Val Pro His Arg Gly
 85 90 95

Glu Leu Glu Lys Leu Phe Pro Arg Ser Asp Val Ala Ser Val Asn Trp
 100 105 110

Ser Ala Xaa Ser Gln Ala Phe Pro Arg Ile Thr Xaa Pro Trp Val Ala
 115 120 125

Thr Tyr Gly Xaa Xaa Ser Trp Trp Gly
 130 135

<210> 6286

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6286

Arg Trp Gly Ser Lys Ser Pro Thr Ala Leu Pro Ile Phe Leu Glu Leu
 1 5 10 15

Thr Ala Gly Val Leu Ala Phe Val Phe Lys Asp Trp Ile Lys Asp Gln
 20 25 30

Leu Tyr Phe Phe Ile Xaa Asn Asn Ile Arg Ala Tyr Arg Asp Asp Ile
 35 40 45

Asp Leu Gln Asn Leu Ile Asp Phe Thr Gln Glu Tyr Trp Gln Cys Cys
 50 55 60

Gly Ala Phe Gly Ala Asp Asp Trp Asn Leu Asn Ile Tyr Phe Asn Cys
 65 70 75 80

Thr Asp Ser Asn Ala Ser Arg Glu Arg Cys Gly Val Pro Phe Ser Cys
 85 90 95

Cys Thr Lys Asp Pro Ala Glu Asp Val Ile Asn Thr Glu Cys Gly Tyr

5512

100 105 110
 Gly Cys Gln Ala Lys Thr Arg Ser
 115 120

 <210> 6287
 <211> 153
 <212> PRT
 <213> Homo sapiens

 <400> 6287
 Ser Thr His Ala Ser Gly Ser Pro Ser Pro Ala Asn His Gly Glu Leu
 1 5 10 15
 Gly Ser Val Pro Gly Gly Arg Arg Arg Gly Cys Gln Ala Pro Gly Thr
 20 25 30
 Arg Gly Val Cys Arg Met Pro Val Thr Arg Leu His Glu Gly Arg Phe
 35 40 45
 His Leu Arg His Arg His Arg His Gly Leu Trp Leu Ala Asp Val His
 50 55 60
 Ser Glu Glu Val Ser Ile Pro Phe Ala Val Glu Pro Pro Ser Gly Arg
 65 70 75 80
 Gly Cys Arg Leu Cys Gly Gln Leu Arg Gly Asp Glu Ser Gly Val Gly
 85 90 95
 Glu Met Gln Gln Pro Leu Ala Leu Pro Gly Asp Arg Ala Ala Pro Gln
 100 105 110
 Arg Gln Glu His Arg Ser Glu Lys Leu Gly Glu Leu Gln Gln Gly His
 115 120 125
 Arg Gly Leu Gly Ala Gly Gly Val Trp Asn Thr Ala Phe Met Pro Pro
 130 135 140
 Asp Pro Arg Pro Thr Leu Pro Thr Pro
 145 150

<210> 6288
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 6288

5513

Ala Lys Ile Ala Lys Glu Glu Ile Phe Gly Pro Val Met Gln Ile Leu
 1 5 10 15
 Lys Phe Lys Thr Ile Glu Glu Val Val Gly Arg Ala Asn Asn Ser Thr
 20 25 30
 Tyr Gly Leu Ala Ala Ala Val Phe Thr Lys Asp Leu Asp Lys Ala Asn
 35 40 45
 Tyr Leu Ser Gln Ala Leu Gln Ala Gly Thr Val Trp Val Asn Cys Tyr
 50 55 60
 Asp Val Phe Gly Ala Gln Ser Pro Phe Gly Gly Tyr Lys Met Ser Gly
 65 70 75 80
 Ser Gly Arg Glu Leu Gly Glu Tyr Gly Leu Gln Ala Tyr Thr Glu Val
 85 90 95
 Lys Thr Val Thr Val Lys Val Pro Gln Lys Asn Ser
 100 105

<210> 6289

<211> 341

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (225)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (291)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6289

Met Asn Thr Asn Trp Pro Ala Ser Val Gln Val Ser Val Asn Ala Thr
 1 5 10 15

Pro Leu Thr Ile Glu Arg Gly Asp Asn Lys Thr Ser His Lys Pro Leu
 20 25 30

Tyr Leu Lys His Val Cys Gln Pro Gly Arg Asn Thr Ile Gln Ile Thr

5514

| | | |
|---|-----|-----|
| 35 | 40 | 45 |
| Val Thr Ala Cys Cys Cys Ser His Leu Phe Val Leu Gln Leu Val His | | |
| 50 | 55 | 60 |
| Arg Pro Ser Val Arg Ser Val Leu Gln Gly Leu Leu Lys Lys Arg Leu | | |
| 65 | 70 | 75 |
| Leu Pro Ala Glu His Cys Ile Thr Lys Ile Lys Arg Asn Phe Ser Ser | | |
| | 85 | 90 |
| Gly Thr Ile Pro Gly Thr Pro Gly Pro Asn Gly Glu Asp Gly Val Glu | | |
| | 100 | 105 |
| Gln Thr Ala Ile Lys Val Ser Leu Lys Cys Pro Ile Thr Phe Arg Arg | | |
| | 115 | 120 |
| Ile Gln Leu Pro Ala Arg Gly His Asp Cys Arg His Ile Gln Cys Phe | | |
| | 130 | 135 |
| Asp Leu Glu Ser Tyr Leu Gln Leu Asn Cys Glu Arg Gly Thr Trp Arg | | |
| | 145 | 150 |
| Cys Pro Val Cys Asn Lys Thr Ala Leu Leu Glu Gly Leu Glu Val Asp | | |
| | 165 | 170 |
| Gln Tyr Met Leu Gly Ile Leu Ile Tyr Ile Gln Asn Ser Asp Tyr Glu | | |
| | 180 | 185 |
| Glu Ile Thr Ile Asp Pro Thr Cys Ser Trp Lys Pro Val Pro Val Lys | | |
| | 195 | 200 |
| Pro Asp Met His Ile Lys Glu Glu Pro Asp Gly Pro Ala Leu Lys Arg | | |
| | 210 | 215 |
| Xaa Arg Thr Val Ser Pro Xaa His Val Leu Met Pro Ser Val Met Glu | | |
| | 225 | 230 |
| Met Ile Ala Ala Leu Gly Pro Gly Ala Ala Pro Phe Ala Pro Leu Gln | | |
| | 245 | 250 |
| Pro Pro Ser Val Pro Pro Pro Ala Ser Arg Gln Ser Leu Gly Gln Ala | | |
| | 260 | 265 |
| Ser Leu Gly Pro Thr Gly Glu Leu Ala Phe Ser Pro Ala Thr Gly Val | | |
| | 275 | 280 |
| Met Gly Xaa Pro Ser Met Ser Gly Ala Gly Glu Ala Pro Glu Pro Ala | | |
| | 290 | 295 |
| Leu Asp Leu Leu Pro Glu Leu Thr Asn Pro Asp Glu Leu Leu Ser Tyr | | |
| | | 300 |

305 310 315 320

Leu Gly Pro Pro Asp Leu Pro Thr Asn Asn Asn Asp Asp Leu Leu Ser
 325 330 335

Leu Phe Glu Asn Asn
 340

```

<210> 6290
<211> 235
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (156)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (229)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (233)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6290

```

5516

Ala Val Leu Cys Pro Ser Xaa Pro Cys Gln Xaa Pro Thr Gln Pro Pro
 1 5 10 15
 Gly Ala Cys Cys Pro Ser Cys Asp Ser Cys Thr Tyr His Ser Gln Val
 20 25 30
 Tyr Ala Asn Gly Gln Asn Phe Thr Asp Ala Asp Ser Pro Cys His Ala
 35 40 45
 Cys His Cys Gln Asp Gly Thr Val Thr Cys Ser Leu Val Asp Cys Pro
 50 55 60
 Xaa Thr Thr Cys Ala Arg Pro Gln Ser Gly Pro Gly Gln Cys Cys Pro
 65 70 75 80
 Arg Cys Pro Asp Cys Ile Leu Glu Glu Glu Val Phe Val Asp Gly Glu
 85 90 95
 Ser Phe Ser His Pro Arg Asp Pro Cys Gln Glu Cys Arg Cys Gln Glu
 100 105 110
 Gly His Ala His Cys Gln Pro Arg Pro Cys Pro Arg Ala Pro Cys Ala
 115 120 125
 His Pro Leu Pro Gly Thr Cys Cys Pro Asn Asp Cys Ser Gly Cys Ala
 130 135 140
 Phe Gly Gly Lys Glu Tyr Pro Ser Gly Ala Asp Xaa Pro His Pro Ser
 145 150 155 160
 Asp Pro Cys Arg Leu Cys Arg Cys Leu Ser Gly Asn Val Gln Cys Leu
 165 170 175
 Ala Arg Arg Cys Val Pro Leu Pro Cys Pro Glu Pro Val Leu Leu Pro
 180 185 190
 Gly Glu Cys Cys Pro Glu Trp Pro Lys Pro Pro Ser Pro Arg Pro Ala
 195 200 205
 Ala His Gly Pro Gly Xaa Gly Pro Thr Ala Arg Pro Pro Arg Lys Tyr
 210 215 220
 Leu Phe Ser Pro Xaa Pro Gly Asp Xaa Leu Gly
 225 230 235

<210> 6291

<211> 55

<212> PRT

<213> Homo sapiens

5517

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6291

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asp | Asn | Asn | Phe | Thr | Gln | Glu | Thr | Ala | Met | Thr | Met | Ile | Thr | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Lys | Leu | Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Ala | Ala | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Arg | Ala | Lys | Leu | Gln |
| | 50 | | | | 55 | |

<210> 6292

<211> 421

<212> PRT

<213> Homo sapiens

<400> 6292

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gly | Asp | Cys | Cys | Val | Pro | Tyr | Leu | Asp | Pro | Glu | Gly | Thr | Ser | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Trp | Leu | Ser | Val | Ser | Leu | Leu | Ser | Ser | Gly | Glu | Ile | Thr | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Ala | Pro | Arg | Met | Glu | Pro | Pro | Gly | Arg | Arg | Glu | Cys | Pro | Phe |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Trp | Arg | Phe | Pro | Gly | Leu | Leu | Leu | Ala | Ala | Met | Val | Leu | Leu |
| | | 50 | | | | 55 | | | | 60 | | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Tyr | Ser | Phe | Ser | Asp | Ala | Cys | Glu | Glu | Pro | Pro | Thr | Phe | Glu | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Leu | Ile | Gly | Lys | Pro | Lys | Pro | Tyr | Tyr | Glu | Ile | Gly | Glu | Arg |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Asp | Tyr | Lys | Cys | Lys | Lys | Gly | Tyr | Phe | Tyr | Ile | Pro | Pro | Leu | Ala |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | His | Thr | Ile | Cys | Asp | Arg | Asn | His | Thr | Trp | Leu | Pro | Val | Ser | Asp |
| | | | 115 | | | | 120 | | | | | 125 | | | |

5518

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ala | Cys | Tyr | Arg | Glu | Thr | Cys | Pro | Tyr | Ile | Arg | Asp | Pro | Leu | Asn | 130 | 135 | 140 | |
| Gly | Gln | Ala | Val | Pro | Ala | Asn | Gly | Thr | Tyr | Glu | Phe | Gly | Tyr | Gln | Met | 145 | 150 | 155 | 160 |
| His | Phe | Ile | Cys | Asn | Glu | Gly | Tyr | Tyr | Leu | Ile | Gly | Glu | Glu | Ile | Leu | 165 | 170 | 175 | |
| Tyr | Cys | Glu | Leu | Lys | Gly | Ser | Val | Ala | Ile | Trp | Ser | Gly | Lys | Pro | Pro | 180 | 185 | 190 | |
| Ile | Cys | Glu | Lys | Val | Leu | Cys | Thr | Pro | Pro | Pro | Lys | Ile | Lys | Asn | Gly | 195 | 200 | 205 | |
| Lys | His | Thr | Phe | Ser | Glu | Val | Glu | Val | Phe | Glu | Tyr | Leu | Asp | Ala | Val | 210 | 215 | 220 | |
| Thr | Tyr | Ser | Cys | Asp | Pro | Ala | Pro | Gly | Pro | Asp | Pro | Phe | Ser | Leu | Ile | 225 | 230 | 235 | 240 |
| Gly | Glu | Ser | Thr | Ile | Tyr | Cys | Gly | Asp | Asn | Ser | Val | Trp | Ser | Arg | Ala | 245 | 250 | 255 | |
| Ala | Pro | Glu | Cys | Lys | Val | Val | Lys | Cys | Arg | Phe | Pro | Val | Val | Glu | Asn | 260 | 265 | 270 | |
| Gly | Lys | Gln | Ile | Ser | Gly | Phe | Gly | Lys | Lys | Phe | Tyr | Tyr | Lys | Ala | Thr | 275 | 280 | 285 | |
| Val | Met | Phe | Glu | Cys | Asp | Lys | Gly | Phe | Tyr | Leu | Asp | Gly | Ser | Asp | Thr | 290 | 295 | 300 | |
| Ile | Val | Cys | Asp | Ser | Asn | Ser | Thr | Trp | Asp | Pro | Pro | Val | Pro | Lys | Cys | 305 | 310 | 315 | 320 |
| Leu | Lys | Val | Ser | Thr | Ser | Ser | Thr | Thr | Lys | Ser | Pro | Ala | Ser | Ser | Ala | 325 | 330 | 335 | |
| Ser | Gly | Pro | Arg | Pro | Thr | Tyr | Lys | Pro | Pro | Val | Ser | Asn | Tyr | Pro | Gly | 340 | 345 | 350 | |
| Tyr | Pro | Lys | Pro | Glu | Glu | Gly | Ile | Leu | Asp | Ser | Leu | Asp | Val | Trp | Val | 355 | 360 | 365 | |
| Ile | Ala | Val | Ile | Val | Ile | Ala | Ile | Val | Val | Gly | Val | Ala | Val | Ile | Cys | 370 | 375 | 380 | |
| Val | Val | Pro | Tyr | Arg | Tyr | Leu | Gln | Arg | Arg | Lys | Lys | Lys | Gly | Lys | Ala | 385 | 390 | 395 | 400 |

5519

Asp Gly Gly Ala Glu Tyr Ala Thr Tyr Gln Thr Lys Ser Thr Thr Pro
 405 410 415

Ala Glu Gln Arg Gly
 420

<210> 6293

<211> 80

<212> PRT

<213> Homo sapiens

<400> 6293

Gly His Cys Gln Gly Leu Lys Pro Val Glu Gln Pro Leu Ala Met Ser
 1 5 10 15

Pro Leu Gln Tyr Ser Phe Met Ala Val Ile His Phe Ala Gly Leu Lys
 20 25 30

Ala Val Gly Glu Ser Val Gln Lys Pro Leu Asp Tyr Tyr Arg Val Asn
 35 40 45

Leu Thr Gly Thr Ile Gln Leu Leu Glu Ile Met Lys Ala His Gly Val
 50 55 60

Lys Asn Leu Val Phe Ser Ser Ser Ala Thr Val Tyr Gly Asn Pro Gln
 65 70 75 80

<210> 6294

<211> 78

<212> PRT

<213> Homo sapiens

<400> 6294

Glu Ala Asp Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys
 1 5 10 15

Val Cys Ile Gln Thr His Ile Phe Leu Lys Cys Lys Tyr Ser Leu Phe
 20 25 30

Lys Lys Ile Ile Ile Thr Ala Lys Gln Ile Thr Ser Asn Ser Phe Ile
 35 40 45

Leu Ile Tyr Pro Val Phe Arg Phe Ser Arg Leu Ala Pro Asn Phe Phe
 50 55 60

5520

Thr Asp Tyr Leu Asn Leu Ile Gln Phe Met Tyr Cys Asn Val
 65 70 75

<210> 6295

<211> 284

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6295

Phe Ser Val Val Asp Xaa Arg Lys Phe Ser Ala Val Ser Gly Glu Thr
 1 5 10 15

Arg Gly Leu Arg Val Ser Leu Ser Val Phe Gln Ser Pro Gly Ala Val
 20 25 30

Val Gln Gly Leu Gly Leu Val Met Ala Ser Pro Ser Arg Arg Leu Gln
 35 40 45

Thr Lys Pro Val Ile Thr Cys Phe Lys Ser Val Leu Leu Ile Tyr Thr
 50 55 60

Phe Ile Phe Trp Ile Thr Gly Val Ile Leu Leu Ala Val Gly Ile Trp
 65 70 75 80

Gly Lys Val Ser Leu Glu Asn Tyr Phe Ser Leu Leu Asn Glu Lys Ala
 85 90 95

Thr Asn Val Pro Phe Val Leu Ile Ala Thr Gly Thr Val Ile Ile Leu
 100 105 110

Leu Gly Thr Phe Gly Cys Phe Ala Thr Cys Arg Ala Ser Ala Trp Met
 115 120 125

Leu Lys Leu Tyr Ala Met Phe Leu Thr Leu Val Phe Leu Val Glu Leu
 130 135 140

Val Ala Ala Ile Val Gly Phe Val Phe Arg His Glu Ile Lys Asn Ser
 145 150 155 160

Phe Lys Asn Asn Tyr Glu Lys Ala Leu Lys Gln Tyr Asn Ser Thr Gly
 165 170 175

Asp Tyr Arg Ser His Ala Val Asp Lys Ile Gln Asn Thr Leu His Cys

5521

| | | | | | |
|---|-----|-----|-----|-----|-----|
| | 180 | | 185 | | 190 |
| Cys Gly Val Thr Asp Tyr Arg Asp Trp Thr Asp Thr Asn Tyr Tyr Ser | | | | | |
| | 195 | | 200 | | 205 |
| Glu Lys Gly Phe Pro Lys Ser Cys Cys Lys Leu Glu Asp Cys Thr Pro | | | | | |
| | 210 | | 215 | | 220 |
| Gln Arg Asp Ala Asp Lys Val Asn Asn Glu Gly Cys Phe Ile Lys Val | | | | | |
| | 225 | | 230 | | 235 |
| Met Thr Ile Ile Glu Ser Glu Met Gly Val Val Ala Gly Ile Ser Phe | | | | | |
| | | 245 | | 250 | 255 |
| Gly Val Ala Cys Phe Gln Leu Ile Gly Ile Phe Leu Ala Tyr Cys Leu | | | | | |
| | 260 | | 265 | | 270 |
| Ser Arg Ala Ile Thr Asn Asn Gln Tyr Glu Ile Val | | | | | |
| | 275 | | 280 | | |

<210> 6296

<211> 368

<212> PRT

<213> Homo sapiens

<400> 6296

| | | | | | |
|---|-----|----|-----|----|-----|
| Lys Thr Leu Ser Gly Gly Gly Arg Arg Gln Lys Gly Trp Asp Val Ser | | | | | |
| 1 | | 5 | | 10 | 15 |
| Phe Lys Phe Pro Gly His Ser Leu Ile Val Leu Tyr Val Pro Ala Asp | | | | | |
| | 20 | | 25 | | 30 |
| Cys Gln Cys Asp Leu Thr Leu Ser Ser His Pro Ser Ser Val Pro Ala | | | | | |
| | 35 | | 40 | | 45 |
| Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile | | | | | |
| | 50 | | 55 | | 60 |
| Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser | | | | | |
| | 65 | | 70 | | 75 |
| Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val | | | | | |
| | | 85 | | 90 | 95 |
| Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met | | | | | |
| | 100 | | 105 | | 110 |
| Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile | | | | | |
| | 115 | | 120 | | 125 |

5522

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
 130 135 140

Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
 145 150 155 160

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
 165 170 175

Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
 180 185 190

Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
 195 200 205

Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
 210 215 220

Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu
 225 230 235 240

Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
 245 250 255

Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val
 260 265 270

Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys
 275 280 285

Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly
 290 295 300

Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg
 305 310 315 320

Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro
 325 330 335

Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala
 340 345 350

Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys
 355 360 365

5523

<210> 6297

<211> 335

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6297

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ser | Ser | Ile | Ser | Tyr | Leu | Tyr | Asn | Lys | Leu | Pro | Arg | Arg | Arg | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | | 15 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Leu | Phe | Gly | Glu | Glu | Leu | Glu | Arg | Leu | Leu | Lys | Xaa | Lys | Tyr | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | His | Trp | Tyr | Pro | Glu | Lys | Pro | Leu | Lys | Gly | Ser | Gly | Phe | Arg | Cys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | His | Ile | Gly | Glu | Met | Val | Asp | Pro | Val | Val | Glu | Leu | Ala | Ala | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ser | Gly | Leu | Ala | Val | Glu | Asp | Val | Arg | Ala | Asn | Val | Pro | Glu | Glu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Val | Trp | Ile | Asp | Pro | Phe | Glu | Val | Ser | Tyr | Gln | Ile | Gly | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Gly | Ala | Val | Lys | Val | Leu | Tyr | Leu | Asp | Asp | Ser | Glu | Gly | Cys | Gly |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Pro | Glu | Leu | Asp | Lys | Glu | Ile | Lys | Ser | Ser | Phe | Asn | Pro | Asp | Ala |
| | | 115 | | | | | | 120 | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Val | Phe | Val | Pro | Ile | Gly | Ser | Gln | Asp | Ser | Ser | Leu | Ser | Asn | Ser |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Pro | Ser | Phe | Gly | Gln | Ser | Pro | Ser | Pro | Thr | Phe | Ile | Pro | Arg |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ala | Gln | Pro | Ile | Thr | Phe | Thr | Thr | Ala | Ser | Phe | Ala | Ala | Thr | Lys |
| | | | | 165 | | | | | 170 | | | | | 175 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gly | Ser | Thr | Lys | Met | Lys | Lys | Gly | Gly | Gly | Ala | Ala | Ser | Gly | Gly |
| | | | 180 | | | | | 185 | | | | | 190 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Ala | Ser | Ser | Gly | Ala | Gly | Gly | Gln | Gln | Pro | Pro | Gln | Gln | Pro |
| | | 195 | | | | | 200 | | | | | 205 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Met | Ala | Arg | Ser | Pro | Thr | Asn | Ser | Leu | Leu | Lys | His | Lys | Ser | Leu |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5524

| | | |
|---|---|---------|
| 210 | 215 | 220 |
| Ser Leu Ser Met His | Ser Leu Asn Phe Ile Thr Ala Asn Pro Ala Pro | |
| 225 | 230 | 235 240 |
| Gln Ser Gln Leu Ser | Pro Asn Ala Lys Glu Phe Val Tyr Asn Gly Gly | |
| | 245 | 250 255 |
| Gly Ser Pro Ser Leu Phe Phe Asp Ala Ala Asp Gly Gln Gly Ser Gly | | |
| | 260 | 265 270 |
| Thr Pro Gly Pro Phe Gly Gly Ser Gly Ala Gly Thr Cys Asn Ser Ser | | |
| | 275 | 280 285 |
| Ser Phe Asp Met Ala Gln Val Phe Gly Gly Gly Ala Asn Ser Leu Phe | | |
| | 290 | 295 300 |
| Leu Glu Lys Thr Pro Phe Val Glu Gly Leu Ser Tyr Asn Leu Asn Thr | | |
| 305 | 310 | 315 320 |
| Met Gln Tyr Pro Ser Gln Gln Phe Gln Pro Val Val Leu Ala Asn | | |
| | 325 | 330 335 |

<210> 6298

<211> 461

<212> PRT

<213> Homo sapiens

<400> 6298

| | |
|---|-------------|
| Gln Ser Leu Asn Asn Tyr Leu Val Ile Pro Thr Ser Ala Pro Trp Cys | |
| 1 | 5 10 15 |
| Glu Gln Leu Leu Asn Met Asn Tyr Ser Leu His Leu Ala Phe Val Cys | |
| | 20 25 30 |
| Leu Ser Leu Phe Thr Glu Arg Met Cys Ile Gln Gly Ser Gln Phe Asn | |
| | 35 40 45 |
| Val Glu Val Gly Arg Ser Asp Lys Leu Ser Leu Pro Gly Phe Glu Asn | |
| | 50 55 60 |
| Leu Thr Ala Gly Tyr Asn Lys Phe Leu Arg Pro Asn Phe Gly Gly Glu | |
| 65 | 70 75 80 |
| Pro Val Gln Ile Ala Leu Thr Leu Asp Ile Ala Ser Ile Ser Ser Ile | |
| | 85 90 95 |
| Ser Glu Ser Asn Met Asp Tyr Thr Ala Thr Ile Tyr Leu Arg Gln Arg | |
| | 100 105 110 |

5525

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Met | Asp | Gln | Arg | Leu | Val | Phe | Glu | Gly | Asn | Lys | Ser | Phe | Thr | Leu | 115 | 120 | 125 |
| Asp | Ala | Arg | Leu | Val | Glu | Phe | Leu | Trp | Val | Pro | Asp | Thr | Tyr | Ile | Val | 130 | 135 | 140 |
| Glu | Ser | Lys | Lys | Ser | Phe | Leu | His | Glu | Val | Thr | Val | Gly | Asn | Arg | Leu | 145 | 150 | 155 |
| Ile | Arg | Leu | Phe | Ser | Asn | Gly | Thr | Val | Leu | Tyr | Ala | Leu | Arg | Ile | Thr | 165 | 170 | 175 |
| Thr | Thr | Val | Ala | Cys | Asn | Met | Asp | Leu | Ser | Lys | Tyr | Pro | Met | Asp | Thr | 180 | 185 | 190 |
| Gln | Thr | Cys | Lys | Leu | Gln | Leu | Glu | Ser | Trp | Gly | Tyr | Asp | Gly | Asn | Asp | 195 | 200 | 205 |
| Val | Glu | Phe | Thr | Trp | Leu | Arg | Gly | Asn | Asp | Ser | Val | Arg | Gly | Leu | Glu | 210 | 215 | 220 |
| His | Leu | Arg | Leu | Ala | Gln | Tyr | Thr | Ile | Glu | Arg | Tyr | Phe | Thr | Leu | Val | 225 | 230 | 235 |
| Thr | Arg | Ser | Gln | Gln | Glu | Thr | Gly | Asn | Tyr | Thr | Arg | Leu | Val | Leu | Gln | 245 | 250 | 255 |
| Phe | Glu | Leu | Arg | Arg | Asn | Val | Leu | Tyr | Phe | Ile | Leu | Glu | Thr | Tyr | Val | 260 | 265 | 270 |
| Pro | Ser | Thr | Phe | Leu | Val | Val | Leu | Ser | Trp | Val | Ser | Phe | Trp | Ile | Ser | 275 | 280 | 285 |
| Leu | Asp | Ser | Val | Pro | Ala | Arg | Thr | Cys | Ile | Gly | Val | Thr | Thr | Val | Leu | 290 | 295 | 300 |
| Ser | Met | Thr | Thr | Leu | Met | Ile | Gly | Ser | Arg | Thr | Ser | Leu | Pro | Asn | Thr | 305 | 310 | 315 |
| Asn | Cys | Phe | Ile | Lys | Ala | Ile | Asp | Val | Tyr | Leu | Gly | Ile | Cys | Phe | Ser | 325 | 330 | 335 |
| Phe | Val | Phe | Gly | Ala | Leu | Leu | Glu | Tyr | Ala | Val | Ala | His | Tyr | Ser | Ser | 340 | 345 | 350 |
| Leu | Gln | Gln | Met | Ala | Ala | Lys | Asp | Arg | Gly | Thr | Thr | Lys | Glu | Val | Glu | 355 | 360 | 365 |
| Glu | Val | Ser | Ile | Thr | Asn | Ile | Ile | Asn | Ser | Ser | Ile | Ser | Ser | Phe | Lys | 370 | 375 | 380 |

5526

Arg Lys Ile Ser Phe Ala Ser Ile Glu Ile Ser Ser Asp Asn Val Asp
 385 390 395 400

Tyr Ser Asp Leu Thr Met Lys Thr Ser Asp Lys Phe Lys Phe Val Phe
 405 410 415

Arg Glu Lys Met Gly Arg Ile Val Asp Tyr Phe Thr Ile Gln Asn Pro
 420 425 430

Ser Asn Val Asp His Tyr Ser Lys Leu Leu Phe Pro Leu Ile Phe Met
 435 440 445

Leu Ala Asn Val Phe Tyr Trp Ala Tyr Tyr Met Tyr Phe
 450 455 460

<210> 6299
 <211> 403
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (244)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6299
 Ala Gly Trp Ser Pro Glu Ser Leu Ala Tyr Trp Pro Xaa Arg Ser Asp
 1 5 10 15

Thr Glu Val Pro Pro Leu Asp Leu Gly Trp Thr Asp Thr Gly Phe Tyr
 20 25 30

Arg Gly Val Ser Xaa Val Thr Leu Phe Thr His Pro Pro Lys Asp Glu

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 35 | | | | | 40 | | | | | 45 | | | | |
| Lys | Ala | Pro | His | Leu | Lys | Gln | Xaa | Val | Arg | Gln | Met | Ile | Gln | Gln | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Gln | Lys | Val | Ile | Ala | Val | Val | Met | Asp | Leu | Phe | Thr | Asp | Gly | Asp | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Phe | Gln | Asp | Ile | Val | Asp | Ala | Ala | Cys | Lys | Arg | Arg | Val | Pro | Val | Tyr |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Ile | Ile | Leu | Asp | Glu | Ala | Gly | Val | Lys | Tyr | Phe | Leu | Glu | Met | Cys | Gln |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Asp | Leu | Gln | Leu | Thr | Asp | Phe | Arg | Ile | Arg | Asn | Ile | Arg | Val | Arg | Ser |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Val | Thr | Gly | Val | Gly | Phe | Tyr | Met | Pro | Met | Gly | Arg | Ile | Lys | Gly | Thr |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Leu | Ser | Ser | Arg | Phe | Leu | Met | Val | Asp | Gly | Asp | Lys | Val | Ala | Thr | Gly |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Ser | Tyr | Arg | Phe | Thr | Trp | Ser | Ser | Ser | His | Val | Asp | Arg | Asn | Leu | Leu |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Leu | Leu | Leu | Thr | Gly | Gln | Asn | Val | Glu | Pro | Phe | Asp | Thr | Glu | Phe | Arg |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Glu | Leu | Tyr | Ala | Ile | Ser | Glu | Glu | Val | Asp | Leu | Tyr | Arg | Gln | Leu | Ser |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Leu | Ala | Gly | Arg | Val | Gly | Leu | His | Tyr | Ser | Ser | Thr | Val | Ala | Arg | Lys |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Leu | Ile | Asn | Pro | Lys | Tyr | Ala | Leu | Val | Ser | Gly | Cys | Arg | His | Pro | Pro |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Gly | Glu | Met | Xaa | Arg | Trp | Ala | Ala | Arg | Gln | Gln | Arg | Glu | Ala | Gly | Gly |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Asn | Pro | Glu | Gly | Gln | Glu | Glu | Gly | Ala | Ser | Gly | Gly | Glu | Ser | Ala | Trp |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Arg | Leu | Glu | Ser | Phe | Leu | Lys | Asp | Leu | Val | Thr | Val | Glu | Gln | Val | Leu |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Pro | Pro | Val | Glu | Pro | Ile | Pro | Leu | Gly | Glu | Leu | Ser | Gln | Lys | Asp | Gly |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Arg | Met | Val | Ser | His | Met | His | Arg | Asp | Leu | Lys | Pro | Lys | Ser | Arg | Glu |

5528

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| 305 | 310 | | | | | | | 315 | | | | | | | 320 | | |
| Ala | Pro | Ser | Arg | Asn | Gly | Met | Gly | Glu | Ala | Ala | Arg | Gly | Glu | Ala | Ala | | |
| | | | | 325 | | | 330 | | | | 335 | | | | | | |
| Pro | Ala | Gly | Arg | Phe | Ser | Ser | Arg | Leu | Phe | Ser | Arg | Arg | Ala | Lys | Arg | | |
| | | | | 340 | | | 345 | | | | 350 | | | | | | |
| Pro | Ala | Ala | Pro | Asn | Gly | Met | Ala | Ser | Ser | Val | Ser | Thr | Glu | Thr | Ser | | |
| | | | | 355 | | | 360 | | | | 365 | | | | | | |
| Glu | Val | Glu | Phe | Leu | Thr | Gly | Lys | Arg | Pro | Asn | Glu | Asn | Ser | Ser | Ala | | |
| | | | | 370 | | | 375 | | | | 380 | | | | | | |
| Asp | Ile | Ser | Gly | Lys | Thr | Ser | Pro | Ser | Ser | Ala | Lys | Pro | Ser | Asn | Cys | | |
| 385 | | | | 390 | | | 395 | | | | 400 | | | | | | |
| Val | Ile | Ser | | | | | | | | | | | | | | | |

<210> 6300

<211> 775

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (3)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6300

Gln Xaa Xaa Tyr Xaa Xaa Pro Gly Arg Pro Thr Arg Pro Gly Ser Ser
1 5 10 15

5529

Gly Ala Lys Met Ser Phe Val Ala Gly Val Ile Arg Arg Leu Asp Glu
 20 25 30
 Thr Val Val Asn Arg Ile Ala Ala Gly Glu Val Ile Gln Arg Pro Ala
 35 40 45
 Asn Ala Ile Lys Glu Met Ile Glu Asn Cys Leu Asp Ala Lys Ser Thr
 50 55 60
 Ser Ile Gln Val Ile Val Lys Glu Gly Gly Leu Lys Leu Ile Gln Ile
 65 70 75 80
 Gln Asp Asn Gly Thr Gly Ile Arg Lys Glu Asp Leu Asp Ile Val Cys
 85 90 95
 Glu Arg Phe Thr Thr Ser Lys Leu Gln Ser Phe Glu Asp Leu Ala Ser
 100 105 110
 Ile Ser Thr Tyr Gly Phe Arg Gly Glu Ala Leu Ala Ser Ile Ser His
 115 120 125
 Val Ala His Val Thr Ile Thr Thr Lys Thr Ala Asp Gly Lys Cys Ala
 130 135 140
 Tyr Arg Ala Ser Tyr Ser Asp Gly Lys Leu Lys Ala Pro Pro Lys Pro
 145 150 155 160
 Cys Ala Gly Asn Gln Gly Thr Gln Ile Thr Val Glu Asp Leu Phe Tyr
 165 170 175
 Asn Ile Ala Thr Arg Arg Lys Ala Leu Lys Asn Pro Ser Glu Glu Tyr
 180 185 190
 Gly Lys Ile Leu Glu Val Val Gly Arg Tyr Ser Val His Asn Ala Gly
 195 200 205
 Ile Ser Phe Ser Val Lys Lys Gln Gly Glu Thr Val Ala Asp Val Arg
 210 215 220
 Thr Leu Pro Asn Ala Ser Thr Val Asp Asn Ile Arg Ser Ile Phe Gly
 225 230 235 240
 Asn Ala Val Ser Arg Glu Leu Ile Glu Ile Gly Cys Glu Asp Lys Thr
 245 250 255
 Leu Ala Phe Lys Met Asn Gly Tyr Ile Ser Asn Ala Asn Tyr Ser Val
 260 265 270
 Lys Lys Cys Ile Phe Leu Leu Phe Ile Asn His Arg Leu Val Glu Ser
 275 280 285

5530

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ser | Leu | Arg | Lys | Ala | Ile | Glu | Thr | Val | Tyr | Ala | Ala | Tyr | Leu | Pro | 290 | 295 | 300 |
| Lys | Asn | Thr | His | Pro | Phe | Leu | Tyr | Leu | Ser | Leu | Glu | Ile | Ser | Pro | Gln | 305 | 310 | 315 |
| Asn | Val | Asp | Val | Asn | Val | His | Pro | Thr | Lys | His | Glu | Val | His | Phe | Leu | 325 | 330 | 335 |
| His | Glu | Glu | Ser | Ile | Leu | Glu | Arg | Val | Gln | Gln | His | Ile | Glu | Ser | Lys | 340 | 345 | 350 |
| Leu | Leu | Gly | Ser | Asn | Ser | Ser | Arg | Met | Tyr | Phe | Thr | Gln | Thr | Leu | Leu | 355 | 360 | 365 |
| Pro | Gly | Leu | Ala | Gly | Pro | Ser | Gly | Glu | Met | Val | Lys | Ser | Thr | Thr | Ser | 370 | 375 | 380 |
| Leu | Thr | Ser | Ser | Ser | Thr | Ser | Gly | Ser | Ser | Asp | Lys | Val | Tyr | Ala | His | 385 | 390 | 395 |
| Gln | Met | Val | Arg | Thr | Asp | Ser | Arg | Glu | Gln | Lys | Leu | Asp | Ala | Phe | Leu | 405 | 410 | 415 |
| Gln | Pro | Leu | Ser | Lys | Pro | Leu | Ser | Ser | Gln | Pro | Gln | Ala | Ile | Val | Thr | 420 | 425 | 430 |
| Glu | Asp | Lys | Thr | Asp | Ile | Ser | Ser | Gly | Arg | Ala | Arg | Gln | Gln | Asp | Glu | 435 | 440 | 445 |
| Glu | Met | Leu | Glu | Leu | Pro | Ala | Pro | Ala | Glu | Val | Ala | Ala | Lys | Asn | Gln | 450 | 455 | 460 |
| Ser | Leu | Glu | Gly | Asp | Thr | Thr | Lys | Gly | Thr | Ser | Glu | Met | Ser | Glu | Lys | 465 | 470 | 475 |
| Arg | Gly | Pro | Thr | Ser | Ser | Asn | Pro | Arg | Lys | Arg | His | Arg | Glu | Asp | Ser | 485 | 490 | 495 |
| Asp | Val | Glu | Met | Val | Glu | Asp | Asp | Ser | Arg | Lys | Glu | Met | Thr | Ala | Ala | 500 | 505 | 510 |
| Cys | Thr | Pro | Arg | Arg | Arg | Ile | Ile | Asn | Leu | Thr | Ser | Val | Leu | Ser | Leu | 515 | 520 | 525 |
| Gln | Glu | Glu | Ile | Asn | Glu | Gln | Gly | His | Glu | Val | Leu | Arg | Glu | Met | Leu | 530 | 535 | 540 |
| His | Asn | His | Ser | Phe | Val | Gly | Cys | Val | Asn | Pro | Gln | Trp | Ala | Leu | Ala | 545 | 550 | 555 |
| | | | | | | | | | | | | | | | | 560 | | |

5531

Gln His Gln Thr Lys Leu Tyr Leu Leu Asn Thr Thr Lys Leu Ser Glu
565 570 575

Glu Leu Phe Tyr Gln Ile Leu Ile Tyr Asp Phe Ala Asn Phe Gly Val
580 585 590

Leu Arg Leu Ser Glu Pro Ala Pro Leu Phe Asp Leu Ala Met Leu Ala
595 600 605

Leu Asp Ser Pro Glu Ser Gly Trp Thr Glu Glu Asp Gly Pro Lys Glu
610 615 620

Gly Leu Ala Glu Tyr Ile Val Glu Phe Leu Lys Lys Lys Ala Glu Met
625 630 635 640

Leu Ala Asp Tyr Phe Ser Leu Glu Ile Asp Glu Glu Gly Asn Leu Ile
645 650 655

Gly Leu Pro Leu Leu Ile Asp Asn Tyr Val Pro Pro Leu Glu Gly Leu
660 665 670

Pro Ile Phe Ile Leu Arg Leu Ala Thr Glu Val Asn Trp Asp Glu Glu
675 680 685

Lys Glu Cys Phe Glu Ser Leu Ser Lys Glu Cys Ala Met Phe Tyr Ser
690 695 700

Ile Arg Lys Gln Tyr Ile Ser Glu Glu Ser Thr Leu Ser Gly Gln Gln
705 710 715 720

Ser Glu Val Pro Gly Ser Ile Pro Asn Ser Trp Lys Trp Thr Val Glu
725 730 735

His Ile Val Tyr Lys Ala Leu Arg Ser His Ile Leu Pro Pro Lys His
740 745 750

Phe Thr Glu Asp Gly Asn Ile Leu Gln Leu Ala Asn Leu Pro Asp Leu
755 760 765

Tyr Lys Val Phe Glu Arg Cys
770 775

<210> 6301

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5532

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6301

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gln | Leu | Val | Phe | Pro | Ser | Ser | Cys | Leu | Ala | Phe | Xaa | Ser | Pro | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Phe | Lys | Arg | Phe | Lys | Glu | Thr | Thr | Arg | Pro | Phe | Ser | Asn | Glu |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Leu | Gly | Thr | Thr | Arg | Pro | Val | Val | Pro | Ile | Asp | Ser | Ser | Asp | Phe |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Asp | Ile | Arg | Met | Pro | Gly | Val | Thr | Pro | Lys | Gln | Ser | Asp | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Phe | Cys | Met | Ser | Met | Arg | Ile | Pro | Val | Asp | Glu | Glu | Ala | Phe | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asp | Phe | Lys | Pro | Arg | Ala | Ser | Met | Asp | Thr | Val | His | His | Met | Leu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Phe | Gly | Cys | Asn | Met | Pro | Ser | Ser | Thr | Gly | Xaa | Tyr | Trp | Phe | Cys |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Glu | Gly | Thr | Cys | Thr | Asp | Lys | Ala | Asn | Asp | Ser | Val | Cys | Leu | Gly |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Cys | Phe | Pro | Leu | Pro | Gly | Leu | Pro | Lys | Xaa | Cys | Trp | Asp | Ser |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Glu | Leu | Gly | Gly | Xaa | Asp | Trp | Glu | Val | Asn | Thr | Trp | Tyr | Tyr | Arg | |
| 145 | | | | | 150 | | | | | 155 | | | | | |

5533

<210> 6302

<211> 211

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6302

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ser | Tyr | Arg | Glu | Ser | Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Ser | Thr | His | Ala | Ser | Gly | Lys | Gly | Phe | Tyr | Ser | Tyr | Gln | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | His | Glu | Trp | Phe | Arg | Asp | Thr | Asp | Ala | Glu | Phe | Val | Asp | Ile | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Ser | His | Leu | Ile | Leu | Xaa | Xaa | Arg | Ser | Xaa | Val | Pro | Ile | Ile |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gln | Trp | Asn | Lys | Ser | Ser | Lys | Lys | Phe | Val | Pro | His | Gly | Asp | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asn | Met | Glu | Asp | Val | Leu | Ala | Val | Lys | Ser | Phe | Arg | Met | Gln | Asn |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Tyr | Leu | Ser | Leu | Thr | Arg | Phe | Ile | Gly | Asp | Ser | Arg | Val | Met |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Trp | Asn | Ser | Lys | Gln | Phe | Val | Glu | Ile | Gln | Ala | Leu | Pro | Ser | Arg |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Met | Thr | Leu | Gln | Pro | Phe | Ser | Phe | Lys | Asp | Asn | His | Tyr | Leu |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Gly | Ser | Asp | Tyr | Thr | Phe | Ser | Gln | Ile | Tyr | Gln | Trp | Asp | Lys |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

5534

Glu Lys Gln Leu Phe Lys Lys Phe Lys Glu Ile Tyr Val Gln Ala Pro
 165 170 175
 Arg Ser Phe Thr Ala Val Ser Thr Asp Arg Arg Asp Phe Phe Phe Ala
 180 185 190
 Ser Ser Phe Lys Gly Lys Thr Lys Ile Phe Glu His Ile Ile Val Asp
 195 200 205
 Leu Ser Leu
 210

<210> 6303

<211> 704

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6303

Arg His Pro Ala Ala His Pro Ala Gly Pro Gly Glu Ala Leu Ala Ala
 1 5 10 15
 Val Leu Lys Glu Val Cys Asp Ala Trp Ser Leu Thr His Ser Glu Arg
 20 25 30
 Tyr Ala Leu Gln Phe Ala Asp Gly His Arg Arg Tyr Ile Thr Glu Asn
 35 40 45
 Asn Arg Ala Glu Ile Lys Asn Gly Ser Ile Leu Cys Leu Ser Thr Ala
 50 55 60
 Pro Asp Leu Glu Ala Glu Gln Leu Leu Gly Gly Leu Gln Ser Asn Ser
 65 70 75 80
 Pro Glu Gly Arg Arg Glu Ala Leu Xaa Arg Leu Val Pro Leu Ala Ser
 85 90 95
 Asp Met Ile Phe Ala Arg Glu Val Ile Ser Arg Asn Gly Leu Gln Ile
 100 105 110

5535

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Thr | Ile | Ile | Glu | Asp | Gly | Asp | Xaa | Leu | Gly | Glu | Val | Leu | Ala | 115 | 120 | 125 |
| Leu | Ser | Leu | Arg | Ala | Phe | Ser | Glu | Leu | Met | Glu | His | Gly | Val | Val | Ser | 130 | 135 | 140 |
| Trp | Glu | Thr | Leu | Ser | Ile | Pro | Phe | Val | Arg | Lys | Val | Val | Cys | Tyr | Val | 145 | 150 | 155 |
| Asn | Met | Asn | Leu | Met | Asp | Ala | Ser | Val | Pro | Pro | Leu | Ala | Leu | Gly | Leu | 165 | 170 | 175 |
| Leu | Glu | Ser | Val | Thr | Leu | Ser | Ser | Pro | Ala | Leu | Gly | Gln | Leu | Val | Lys | 180 | 185 | 190 |
| Ser | Glu | Val | Pro | Leu | Asp | Arg | Leu | Leu | Val | His | Leu | Gln | Val | Met | Asn | 195 | 200 | 205 |
| Gln | Gln | Leu | Gln | Thr | Lys | Ala | Met | Ala | Leu | Leu | Thr | Ala | Leu | Leu | Gln | 210 | 215 | 220 |
| Gly | Ala | Ser | Pro | Val | Glu | Arg | Lys | His | Met | Leu | Asp | Tyr | Leu | Trp | Gln | 225 | 230 | 235 |
| Arg | Asn | Leu | Arg | Gln | Phe | Ile | Tyr | Lys | Asn | Ile | Ile | His | Ser | Ala | Ala | 245 | 250 | 255 |
| Pro | Met | Gly | Asp | Glu | Met | Ala | His | His | Leu | Tyr | Val | Leu | Gln | Ala | Leu | 260 | 265 | 270 |
| Met | Leu | Gly | Leu | Leu | Glu | Pro | Arg | Met | Arg | Thr | Pro | Leu | Asp | Pro | Tyr | 275 | 280 | 285 |
| Ser | Gln | Glu | Gln | Arg | Glu | Gln | Leu | Gln | Val | Leu | Arg | Gln | Ala | Ala | Phe | 290 | 295 | 300 |
| Glu | Val | Glu | Gly | Glu | Ser | Ser | Gly | Ala | Gly | Leu | Ser | Ala | Asp | Arg | Arg | 305 | 310 | 315 |
| Arg | Ser | Leu | Cys | Ala | Arg | Glu | Phe | Arg | Lys | Leu | Gly | Phe | Ser | Asn | Ser | 325 | 330 | 335 |
| Asn | Pro | Ala | Gln | Asp | Leu | Glu | Arg | Val | Pro | Pro | Gly | Leu | Leu | Ala | Leu | 340 | 345 | 350 |
| Asp | Asn | Met | Leu | Tyr | Phe | Ser | Arg | Asn | Ala | Pro | Ser | Ala | Tyr | Ser | Arg | 355 | 360 | 365 |
| Phe | Val | Leu | Glu | Asn | Ser | Ser | Arg | Glu | Asp | Lys | His | Glu | Cys | Pro | Phe | 370 | 375 | 380 |

5536

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Gly | Ser | Ile | Gln | Leu | Thr | Val | Leu | Leu | Cys | Glu | Leu | Leu | Arg | 385 | 390 | 395 | 400 |
| Val | Gly | Glu | Pro | Cys | Ser | Glu | Thr | Ala | Gln | Asp | Phe | Ser | Pro | Met | Phe | 405 | 410 | 415 | |
| Phe | Gly | Gln | Asp | Gln | Ser | Phe | His | Glu | Leu | Phe | Cys | Val | Gly | Ile | Gln | 420 | 425 | 430 | |
| Leu | Leu | Asn | Lys | Thr | Trp | Lys | Glu | Met | Arg | Ala | Thr | Gln | Glu | Asp | Phe | 435 | 440 | 445 | |
| Asp | Lys | Val | Met | Gln | Val | Val | Arg | Glu | Gln | Leu | Ala | Arg | Thr | Leu | Ala | 450 | 455 | 460 | |
| Leu | Lys | Pro | Thr | Ser | Leu | Glu | Leu | Phe | Arg | Thr | Lys | Val | Asn | Ala | Leu | 465 | 470 | 475 | 480 |
| Thr | Tyr | Gly | Glu | Val | Leu | Arg | Leu | Arg | Gln | Thr | Glu | Arg | Leu | His | Gln | 485 | 490 | 495 | |
| Glu | Gly | Thr | Leu | Ala | Pro | Pro | Ile | Leu | Glu | Leu | Arg | Glu | Lys | Leu | Lys | 500 | 505 | 510 | |
| Pro | Glu | Leu | Met | Gly | Leu | Ile | Arg | Gln | Gln | Arg | Leu | Leu | Arg | Leu | Cys | 515 | 520 | 525 | |
| Glu | Gly | Thr | Leu | Phe | Arg | Lys | Ile | Ser | Ser | Arg | Arg | Arg | Gln | Asp | Lys | 530 | 535 | 540 | |
| Leu | Trp | Phe | Cys | Cys | Leu | Ser | Pro | Asn | His | Lys | Leu | Leu | Gln | Tyr | Gly | 545 | 550 | 555 | 560 |
| Asp | Met | Glu | Glu | Gly | Ala | Ser | Pro | Pro | Thr | Leu | Glu | Ser | Leu | Pro | Glu | 565 | 570 | 575 | |
| Gln | Leu | Pro | Val | Ala | Asp | Met | Arg | Ala | Leu | Leu | Thr | Gly | Lys | Asp | Cys | 580 | 585 | 590 | |
| Pro | His | Val | Arg | Glu | Lys | Gly | Ser | Gly | Lys | Gln | Asn | Lys | Asp | Leu | Tyr | 595 | 600 | 605 | |
| Glu | Leu | Ala | Phe | Ser | Ile | Ser | Tyr | Asp | Arg | Gly | Glu | Glu | Glu | Ala | Tyr | 610 | 615 | 620 | |
| Leu | Asn | Phe | Ile | Ala | Pro | Ser | Lys | Arg | Glu | Phe | Tyr | Leu | Trp | Thr | Asp | 625 | 630 | 635 | 640 |
| Gly | Leu | Ser | Ala | Leu | Leu | Gly | Ser | Pro | Met | Gly | Ser | Glu | Gln | Thr | Arg | 645 | 650 | 655 | |

5537

Leu Asp Leu Glu Gln Leu Leu Thr Met Glu Thr Lys Leu Arg Leu Leu
 660 665 670

Glu Leu Glu Asn Val Pro Ile Pro Glu Arg Pro Pro Pro Val Pro Pro
 675 680 685

Pro Pro Thr Asn Phe Asn Phe Cys Tyr Asp Cys Ser Ile Ala Glu Pro
 690 695 700

<210> 6304

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6304

Leu Pro Leu Leu Gln Xaa Glu Met Cys Ile Arg Asp Ser Tyr Arg Arg
 1 5 10 15

Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser
 20 25 30

Ala His Ala Ser Ala Asp Ala Trp Ala Val Thr Glu Ile Ile Phe Pro
 35 40 45

Tyr Glu Gln Thr Leu Cys Val Arg Pro Val Ser His Met Ser Arg Ala
 50 55 60

Cys Val Gln Val Cys Phe Trp His Val Pro His
 65 70 75

<210> 6305

<211> 238

<212> PRT

<213> Homo sapiens

<400> 6305

Glu Ile Ser His Asn Leu Gly Val Cys Tyr Ile Tyr Leu Lys Gln Phe
 1 5 10 15

5538

Asn Lys Ala Gln Asp Gln Leu His Asn Ala Leu Asn Leu Asn Arg His
 20 25 30
 Asp Leu Thr Tyr Ile Met Leu Gly Lys Ile His Leu Leu Glu Gly Asp
 35 40 45
 Leu Asp Lys Ala Ile Glu Val Tyr Lys Lys Ala Val Glu Phe Ser Pro
 50 55 60
 Glu Asn Thr Glu Leu Leu Thr Thr Leu Gly Leu Leu Tyr Leu Gln Leu
 65 70 75 80
 Gly Ile Tyr Gln Lys Ala Phe Glu His Leu Gly Asn Ala Leu Thr Tyr
 85 90 95
 Asp Pro Thr Asn Tyr Lys Ala Ile Leu Ala Ala Gly Ser Met Met Gln
 100 105 110
 Thr His Gly Asp Phe Asp Val Ala Leu Thr Lys Tyr Arg Val Val Ala
 115 120 125
 Cys Ala Val Pro Glu Ser Pro Pro Leu Trp Asn Asn Ile Gly Met Cys
 130 135 140
 Phe Phe Gly Lys Lys Lys Tyr Val Ala Ala Ile Ser Cys Leu Lys Arg
 145 150 155 160
 Ala Asn Tyr Leu Ala Pro Phe Asp Trp Lys Ile Leu Tyr Asn Leu Gly
 165 170 175
 Leu Val His Leu Thr Met Gln Gln Tyr Ala Ser Ala Phe His Phe Leu
 180 185 190
 Ser Ala Ala Ile Asn Phe Gln Pro Lys Met Gly Glu Leu Tyr Met Leu
 195 200 205
 Leu Ala Val Ala Leu Thr Asn Leu Glu Asp Thr Glu Asn Ala Lys Arg
 210 215 220
 Ala Tyr Ala Glu Ala Val His Leu Asp Lys Tyr Ala Leu Cys
 225 230 235

<210> 6306

<211> 345

<212> PRT

<213> Homo sapiens

<400> 6306

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr

5539

| 1 | 5 | 10 | 15 |
|---|-----|-----|-----|
| Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Asn Asp Ala Ala | 20 | 25 | 30 |
| Ser Met Glu Ser Leu Tyr Asp Leu Trp Glu Phe Tyr Leu Pro Tyr Leu | 35 | 40 | 45 |
| Tyr Ser Cys Ile Ser Leu Met Gly Cys Leu Leu Leu Leu Leu Cys Thr | 50 | 55 | 60 |
| Pro Val Gly Leu Ser Arg Met Phe Thr Val Met Gly His Leu Leu Val | 65 | 70 | 75 |
| Lys Pro Thr Ile Leu Glu Asp Leu Asp Glu Gln Ile Tyr Ile Ile Thr | 85 | 90 | 95 |
| Leu Glu Glu Glu Ala Leu Gln Arg Arg Leu Asn Gly Leu Ser Ser Ser | 100 | 105 | 110 |
| Val Glu Tyr Asn Ile Met Glu Leu Glu Gln Glu Leu Glu Asn Val Lys | 115 | 120 | 125 |
| Thr Leu Lys Thr Lys Leu Glu Arg Arg Lys Lys Ala Ser Ala Trp Glu | 130 | 135 | 140 |
| Arg Asn Leu Val Tyr Pro Ala Val Met Val Leu Leu Leu Ile Glu Thr | 145 | 150 | 155 |
| Ser Ile Ser Val Leu Leu Val Ala Cys Asn Ile Leu Cys Leu Leu Val | 165 | 170 | 175 |
| Asp Glu Thr Ala Met Pro Lys Gly Thr Arg Gly Pro Gly Ile Gly Asn | 180 | 185 | 190 |
| Ala Ser Leu Ser Thr Phe Gly Phe Val Gly Ala Ala Leu Glu Ile Ile | 195 | 200 | 205 |
| Leu Ile Phe Tyr Leu Met Val Ser Ser Val Val Gly Phe Tyr Ser Leu | 210 | 215 | 220 |
| Arg Phe Phe Gly Asn Phe Thr Pro Lys Lys Asp Asp Thr Thr Met Thr | 225 | 230 | 235 |
| Lys Ile Ile Gly Asn Cys Val Ser Ile Leu Val Leu Ser Ser Ala Leu | 245 | 250 | 255 |
| Pro Val Met Ser Arg Thr Leu Gly Ile Thr Arg Phe Asp Leu Leu Gly | 260 | 265 | 270 |
| Asp Phe Gly Arg Phe Asn Trp Leu Gly Asn Phe Tyr Ile Val Leu Ser | | | |

5540

275 280 285
 Tyr Asn Leu Leu Phe Ala Ile Val Thr Thr Leu Cys Leu Val Arg Lys
 290 295 300
 Phe Thr Ser Ala Val Arg Glu Glu Leu Phe Lys Ala Leu Gly Leu His
 305 310 315 320
 Lys Leu His Leu Pro Asn Thr Ser Arg Asp Ser Glu Thr Ala Lys Pro
 325 330 335
 Ser Val Asn Gly His Gln Lys Ala Leu
 340 345

<210> 6307

<211> 404

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (346)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (401)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6307

Xaa Val Arg Val Gln Thr Arg Gly Ser Ala Asp Pro Ala Gln Leu Arg
 1 5 10 15

Arg His Pro Gly Tyr Lys Arg Thr Ala Ser Ala Thr Leu Ser Asp Pro
 20 25 30

Ala Ala Ala Ala Met Gln Pro Ser Ser Leu Leu Pro Leu Ala Leu Cys
 35 40 45

Leu Leu Ala Ala Pro Ala Ser Ala Leu Val Arg Ile Pro Leu His Lys
 50 55 60

Phe Thr Ser Ile Arg Arg Thr Met Ser Glu Val Gly Gly Ser Val Glu
 65 70 75 80

5541

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Leu | Ile | Ala | Lys | Gly | Pro | Val | Ser | Lys | Tyr | Ser | Gln | Ala | Val | Pro | 85 | 90 | 95 | |
| Ala | Val | Thr | Glu | Gly | Pro | Ile | Pro | Glu | Val | Leu | Lys | Asn | Tyr | Met | Asp | 100 | 105 | 110 | |
| Ala | Gln | Tyr | Tyr | Gly | Glu | Ile | Gly | Ile | Gly | Thr | Pro | Pro | Gln | Cys | Phe | 115 | 120 | 125 | |
| Thr | Val | Val | Phe | Asp | Thr | Gly | Ser | Ser | Asn | Leu | Trp | Val | Pro | Ser | Ile | 130 | 135 | 140 | |
| His | Cys | Lys | Leu | Leu | Asp | Ile | Ala | Cys | Trp | Ile | His | His | Lys | Tyr | Asn | 145 | 150 | 155 | 160 |
| Ser | Asp | Lys | Ser | Ser | Thr | Tyr | Val | Lys | Asn | Gly | Thr | Ser | Phe | Asp | Ile | 165 | 170 | 175 | |
| His | Tyr | Gly | Ser | Gly | Ser | Leu | Ser | Gly | Tyr | Leu | Ser | Gln | Asp | Thr | Val | 180 | 185 | 190 | |
| Ser | Val | Pro | Cys | Gln | Ser | Ala | Ser | Ser | Ala | Ser | Ala | Leu | Gly | Gly | Val | 195 | 200 | 205 | |
| Lys | Val | Glu | Arg | Gln | Val | Phe | Gly | Glu | Ala | Thr | Lys | Gln | Pro | Gly | Ile | 210 | 215 | 220 | |
| Thr | Phe | Ile | Ala | Ala | Lys | Phe | Asp | Gly | Ile | Leu | Gly | Met | Ala | Tyr | Pro | 225 | 230 | 235 | 240 |
| Arg | Ile | Ser | Val | Asn | Asn | Val | Leu | Pro | Val | Phe | Asp | Asn | Leu | Met | Gln | 245 | 250 | 255 | |
| Gln | Lys | Leu | Val | Asp | Gln | Asn | Ile | Phe | Ser | Phe | Tyr | Leu | Ser | Arg | Asp | 260 | 265 | 270 | |
| Pro | Asp | Ala | Gln | Pro | Gly | Gly | Glu | Leu | Met | Leu | Gly | Gly | Thr | Asp | Ser | 275 | 280 | 285 | |
| Lys | Tyr | Tyr | Lys | Gly | Ser | Leu | Ser | Tyr | Leu | Asn | Val | Thr | Arg | Lys | Ala | 290 | 295 | 300 | |
| Tyr | Trp | Gln | Val | His | Leu | Asp | Gln | Val | Glu | Val | Ala | Ser | Gly | Leu | Thr | 305 | 310 | 315 | 320 |
| Leu | Cys | Lys | Glu | Gly | Cys | Glu | Ala | Ile | Val | Asp | Thr | Gly | Thr | Ser | Leu | 325 | 330 | 335 | |
| Met | Val | Gly | Pro | Val | Asp | Glu | Val | Arg | Xaa | Leu | Gln | Lys | Ala | Ile | Gly | 340 | 345 | 350 | |

5542

Ala Val Pro Leu Ile Gln Gly Glu Tyr Met Ile Pro Cys Glu Lys Val
 355 360 365

Ser Thr Leu Pro Ala Ile Thr Leu Lys Leu Gly Gly Lys Gly Tyr Lys
 370 375 380

Leu Ser Pro Glu Asp Tyr Thr Leu Lys Val Ser Gln Ala Gly Lys Thr
 385 390 395 400

Xaa Cys Leu Ser

<210> 6308

<211> 40

<212> PRT

<213> Homo sapiens

<400> 6308

Asn Pro Val Ser Thr Lys Ile Gln Lys Ile Ser Trp Ala Trp Trp Arg
 1 5 10 15

Thr Pro Val Val Pro Ala Thr Leu Glu Ala Glu Ala Gly Glu Ser Leu
 20 25 30

Lys Pro Arg Arg Arg Arg Leu Gln
 35 40

<210> 6309

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

5543

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6309

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | His | Ser | Gly | Cys | Cys | Ile | Glu | Lys | Arg | Met | Trp | Trp | Thr | Asp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Glu | Ala | Trp | Lys | Pro | Asp | Arg | Xaa | Ile | Ala | Ile | Thr | Gln | Lys | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asp | Gly | Ser | Leu | Asp | Leu | Leu | Glu | Ala | Val | Xaa | Cys | Pro | Thr | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Xaa | Xaa | Xaa | Glu | Lys | Gly | Pro | Glu | Arg | Leu | Ile | Leu | Ile | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Asn | Gly | Pro | Met | Met |
| 65 | | | | |

<210> 6310

<211> 206

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6310

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Val | Asp | Pro | Arg | Val | Arg | Pro | Arg | Val | Arg | Pro | Arg | Val | Arg | Gly |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Arg | Arg | Ser | Ser | Gly | Ser | Gly | Ser | Met | Ser | Ala | Gly | Gly | Ala |
| | | | | 20 | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Pro | Pro | Pro | Pro | Asn | Pro | Ala | Val | Ser | Phe | Pro | Pro | Pro | Arg |
| | | 35 | | | | | 40 | | | | 45 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Thr | Leu | Pro | Ala | Gly | Pro | Asp | Ile | Leu | Arg | Thr | Tyr | Ser | Gly | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |

5544

Phe Val Cys Leu Glu Ile Leu Phe Gly Gly Leu Val Trp Ile Leu Val
 65 70 75 80

Ala Ser Ser Asn Val Pro Leu Pro Leu Leu Gln Gly Trp Val Met Phe
 85 90 95

Val Ser Val Thr Ala Phe Phe Phe Ser Leu Leu Phe Leu Gly Met Phe
 100 105 110

Leu Ser Gly Met Val Ala Gln Ile Asp Ala Asn Trp Asn Phe Leu Asp
 115 120 125

Phe Ala Tyr His Phe Thr Val Phe Val Phe Tyr Phe Gly Ala Phe Leu
 130 135 140

Leu Glu Ala Ala Ala Thr Ser Leu His Asp Leu His Cys Asn Thr Thr
 145 150 155 160

Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn Gln Tyr Asn Ile Asn Val
 165 170 175

Ala Xaa Ser Ile Phe Ala Phe Met Thr Thr Ala Cys Tyr Gly Cys Lys
 180 185 190

Phe Gly Ser Gly Phe Thr Lys Met Ala Thr Arg Asn Thr Ser
 195 200 205

<210> 6311

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6311

5545

Ala Phe Pro Trp Asp Leu Trp Pro Ser Trp Arg Gln Glu Pro Ser Ser
 1 5 10 15

Pro Ser Thr Asp Trp Val Leu Leu Ala Leu Ala Leu Val Asn Leu Leu
 20 25 30

Leu Ser Leu Pro Ala Pro Trp Ala Xaa Phe Leu Leu Cys His Ser Leu
 35 40 45

Gly Pro Thr Val Xaa Arg Gly Leu Leu Xaa Thr Gly Thr
 50 55 60

<210> 6312

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6312

Pro Ser Leu Ala Val Ala Lys Ile Ile Ile Ile Glu Phe Asn Pro Met
 1 5 10 15

Tyr Pro Lys Xaa Asn Asp Ile Ala Leu Met Lys Leu Gln Phe Pro Leu
 20 25 30

Thr Phe Ser Gly Thr Val Arg Pro Ile Cys Leu Pro Phe Phe Asp Glu
 35 40 45

Glu Leu Thr Pro Ala Thr Pro Leu Trp Ile Ile Gly Trp Gly Phe Thr
 50 55 60

Lys Gln Asn Gly Gly Lys Met Ser Asp Ile Leu Leu Gln Ala Ser Val
 65 70 75 80

Gln Val Ile Asp Ser Thr Arg Cys Asn Ala Asp Asp Ala Tyr Gln Gly
 85 90 95

Glu Val Thr Glu Lys Met Met Cys Ala Gly Ile Pro Glu Gly Gly Val
 100 105 110

Asp Thr Cys Gln Gly Asp Ser Gly Gly Pro Leu Met Tyr Gln Ser Asp
 115 120 125

Gln Trp His Val Val Gly Ile Val Ser Trp Gly Tyr Gly Cys Gly Gly
 130 135 140

5546

Pro Ser Thr Pro Gly Val Tyr Thr Lys Val Ser Ala Tyr Leu Asn Trp
 145 150 155 160

Ile Tyr Asn Val Trp Lys Ala Glu Leu
 165

<210> 6313

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6313

Arg Phe Ile Leu Lys Ser Val His Ile Gln His Lys Glu Arg Lys Asn
 1 5 10 15

Leu Thr Asn Leu Lys Ser Ala Val Ile Leu Ala His Val Asn Thr Ile
 20 25 30

Leu Ile Ser Trp Phe Ile Tyr Phe Leu Met Phe Val Ser Ile Tyr Ile
 35 40 45

Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile
 50 55 60

Tyr Ile Tyr Ile Tyr Ile Xaa Ile Pro Ser Ser Lys Trp Pro Val Ile
 65 70 75 80

Ala Cys Lys His Phe Phe
 85

<210> 6314

<211> 106

<212> PRT

<213> Homo sapiens

<400> 6314

Gly Gly Tyr Ser Val Asp Ser Pro Thr Leu Thr Arg Phe Phe Thr Phe
 1 5 10 15

His Phe Ile Leu Pro Phe Ile Ile Ala Ala Leu Ala Ala Leu His Leu
 20 25 30

5547

Leu Phe Leu His Glu Thr Gly Ser Asn Asn Pro Leu Gly Ile Thr Ser
 35 40 45
 His Ser Asp Lys Ile Thr Phe His Pro Tyr Tyr Thr Ile Lys Asp Ala
 50 55 60
 Leu Gly Leu Leu Leu Phe Leu Leu Ser Leu Met Thr Leu Thr Leu Phe
 65 70 75 80
 Ser Pro Asp Leu Leu Gly Asp Pro Asp Asn Tyr Thr Leu Ala Asn Pro
 85 90 95
 Leu Asn Thr Pro Pro His Ile Lys Pro Glu
 100 105

<210> 6315
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 6315
 Asp Tyr Ala Arg Pro Lys Tyr Tyr Phe Gln Ile Glu Pro Ser Ser Trp
 1 5 10 15
 Val Ala Val Tyr Asn Thr Gln Val Glu Phe Gly Lys Cys Ser Pro Ser
 20 25 30
 Leu Pro Phe Phe Thr Val Asp Ala Ser Ala Ser Phe Leu Ser Leu His
 35 40 45
 Thr His Cys Pro Thr Ala Gly Phe Pro Phe Ser Phe Arg Ala Val Ala
 50 55 60
 Val Pro Phe Leu His Ser His Pro Ser Gln Trp Gln Pro Pro Leu Pro
 65 70 75 80
 Ser Cys Ile Leu Asn Pro Thr Leu Ile Ile Cys Leu Asp Phe Ala Phe
 85 90 95
 Leu Pro Ala Val Leu
 100

<210> 6316
 <211> 132
 <212> PRT
 <213> Homo sapiens

5548

<400> 6316

Gln Arg His Ala Gly Glu Thr Gly Ala Ala Thr Ala Arg Arg Glu Ser
 1 5 10 15
 Leu Pro Gln Ala Asn Asn Pro Glu Gln Leu Cys Lys Gln Arg Cys Ile
 20 25 30
 Asn Glu Ala Ser Trp Thr Met Lys Arg Val Leu Ser Cys Val Pro Glu
 35 40 45
 Pro Thr Val Val Met Ala Ala Arg Ala Leu Cys Met Leu Gly Leu Val
 50 55 60
 Leu Ala Leu Leu Ser Ser Ser Ser Ala Glu Glu Tyr Val Gly Leu Ser
 65 70 75 80
 Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg Val Asp Cys Gly Tyr
 85 90 95
 Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg Gly Cys Cys Phe Asp
 100 105 110
 Ser Arg Ile Pro Gly Val Pro Trp Cys Phe Lys Pro Leu Gln Glu Ala
 115 120 125
 Glu Cys Thr Phe
 130

<210> 6317

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6317

Leu Xaa Arg Leu Gln Xaa Pro Val Arg Asn Ser Arg Val Asp Pro Arg
 1 5 10 15
 Val Gly Val Pro Glu Pro Thr Val Val Met Ala Ala Arg Ala Leu Cys

5549

| | | |
|---|-----|----|
| 20 | 25 | 30 |
| Met Leu Gly Leu Val Leu Ala Leu Leu Ser Ser Ser Ser Ala Glu Glu | | |
| 35 | 40 | 45 |
| Tyr Val Gly Leu Ser Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg | | |
| 50 | 55 | 60 |
| Val Asp Cys Gly Tyr Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg | | |
| 65 | 70 | 75 |
| Gly Cys Cys Phe Asp Ser Arg Ile Pro Gly Val Pro Trp Cys Phe Lys | | |
| 85 | 90 | 95 |
| Pro Leu Gln Glu Ala Glu Cys Thr Phe | | |
| 100 | 105 | |

<210> 6318

<211> 69

<212> PRT

<213> Homo sapiens

<400> 6318

| | | |
|---|----|----|
| Leu Leu Leu Leu Leu Cys Lys Gly Thr Tyr Ile Pro Gln Tyr Thr Pro | | |
| 1 | 5 | 10 |
| Val Pro Pro Thr Ala Val Ser Ile Glu Gly Val Val Ala Asp Thr Ser | | |
| 20 | 25 | 30 |
| Pro Gln Thr Val Ala Pro Ser Ser Gln Asp Thr Ser Gly Gln Gln Gln | | |
| 35 | 40 | 45 |
| Gln Ile Ala Val Asp Thr Ser Asn Glu His Ala Pro Ala Tyr Ser Tyr | | |
| 50 | 55 | 60 |
| Gln Gln Ser Lys Pro | | |
| 65 | | |

<210> 6319

<211> 96

<212> PRT

<213> Homo sapiens

<400> 6319

| | | |
|---|---|----|
| Thr Phe Lys Phe Ala Asn Gln Phe Leu Ala Arg Lys His Phe Cys Tyr | | |
| 1 | 5 | 10 |
| | | 15 |

5550

Thr Asn Ile Leu Leu Ser Leu Pro Lys Ala Pro Pro Met His Ser Phe
 20 25 30
 Asn Lys Ile Gln Ser Leu Tyr Phe Lys Val Ile Leu Val Met Lys Phe
 35 40 45
 Tyr Met Gln Arg Glu Lys Val Thr Glu Thr Glu Asn Lys Ser Lys Gly
 50 55 60
 Lys Glu Tyr Tyr Gly Ile Lys Leu Ser Lys Gln Phe Trp Trp Lys Val
 65 70 75 80
 Lys Pro Val Ser Ala Pro His Gln Gly Cys Gly Pro Pro Arg His Ala
 85 90 95

<210> 6320

<211> 285

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (280)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6320

Gly Arg Ala Pro Gly Arg Arg Val Gly Leu Arg Cys Ala Arg Arg Thr
 1 5 10 15
 Ser Glu Ala Ala Gly Ser Gly Ala Gly Pro Pro Gly Pro Leu Gln Gly
 20 25 30
 Arg Ser Gly Ser Ser Trp Ala Pro Arg Pro Gly Arg Arg Thr Glu Glu
 35 40 45
 Arg Arg Lys Gly Ala Gly Gly Thr Arg Pro Arg Pro Ala Ala Ala Met
 50 55 60
 Asn Ser Asn Val Glu Asn Leu Pro Pro His Ile Ile Arg Leu Val Tyr
 65 70 75 80
 Lys Glu Val Thr Thr Leu Thr Ala Asp Pro Pro Asp Gly Ile Lys Val
 85 90 95
 Phe Pro Asn Glu Glu Asp Leu Thr Asp Leu Gln Val Thr Ile Glu Gly
 100 105 110

5551

Pro Glu Gly Thr Pro Tyr Ala Gly Gly Leu Phe Arg Met Lys Leu Leu
 115 120 125
 Leu Gly Lys Asp Phe Pro Ala Ser Pro Pro Lys Gly Tyr Phe Leu Thr
 130 135 140
 Lys Ile Phe His Pro Asn Val Gly Ala Asn Gly Glu Ile Cys Val Asn
 145 150 155 160
 Val Leu Lys Arg Asp Trp Thr Ala Glu Leu Gly Ile Arg His Val Leu
 165 170 175
 Leu Thr Ile Lys Cys Leu Leu Ile His Pro Asn Pro Glu Ser Ala Leu
 180 185 190
 Asn Glu Glu Ala Gly Arg Leu Leu Leu Glu Asn Tyr Glu Glu Tyr Ala
 195 200 205
 Ala Arg Ala Arg Leu Leu Thr Glu Ile His Gly Gly Ala Gly Gly Pro
 210 215 220
 Ser Gly Arg Ala Glu Ala Gly Arg Ala Leu Ala Ser Gly Thr Glu Ala
 225 230 235 240
 Ser Ser Thr Asp Pro Gly Ala Pro Gly Gly Pro Gly Gly Ala Glu Gly
 245 250 255
 Pro Met Ala Lys Lys His Ala Gly Glu Arg Asp Lys Lys Leu Ala Ala
 260 265 270
 Lys Lys Lys Thr Asp Lys Lys Xaa Ala Leu Arg Arg Leu
 275 280 285

<210> 6321

<211> 40

<212> PRT

<213> Homo sapiens

<400> 6321

His Glu Arg Met Leu Asn Leu Thr Asp Arg Gln Val Lys Ile Trp Phe
 1 5 10 15
 Gln Asn Arg Arg Met Lys Glu Lys Lys Leu Asn Arg Asp Arg Leu Gln
 20 25 30
 Tyr Phe Thr Gly Asn Pro Leu Phe
 35 40

5552

<210> 6322

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6322

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Glu | Arg | Arg | Gln | Xaa | Val | Val | Lys | Lys | Ala | Asp | Met | Ile | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asn | Met | Thr | His | Gln | Val | Gln | Ala | Glu | Arg | Asp | Ala | Leu | Ala | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Ser | Pro | Phe | Ile | Xaa | His | Leu | Tyr | Tyr | Ser | Leu | Gln | Ser | Ala |
| | 35 | | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Asn | Val | Tyr | Leu | Val | Met | Glu | Tyr | Leu | Ile | Gly | Gly | Asp | Val | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Leu | His | Ile | Tyr | Gly | Tyr | Phe | Asp | Glu | Glu | Met | Ala | Val | Lys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ile | Ser | Glu | Val | Ala | Leu | Ala | Leu | Asp | Tyr | Leu | His | Arg | His | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ile | His | Arg | Asp | Leu | Lys | Pro | Asp | Asn | Met | Leu | Ile | Ser | Asn | Glu |
| | | | 100 | | | | | 105 | | | | | | 110 | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Gly | His | Ile | Lys | Leu | Thr |
| | | | | | 115 |

<210> 6323

<211> 405

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6323

Met Glu Ala Glu Thr Pro Ser Thr Glu Val Pro Pro Asp Pro Glu Pro
1 5 10 15

Gly Val Pro Leu Thr Pro Pro Ser Gln His Gln Glu Ala Gly Ala Gly
20 25 30

Asp Leu Cys Ala Leu Cys Gly Glu His Leu Tyr Val Leu Glu Arg Leu
35 40 45

Cys Val Asn Gly His Phe Phe His Arg Ser Cys Phe Arg Cys His Thr
50 55 60

Cys Glu Ala Thr Leu Trp Pro Gly Gly Tyr Glu Gln His Pro Gly Asp
65 70 75 80

Gly His Phe Tyr Cys Leu Gln His Leu Pro Gln Thr Asp His Lys Xaa
85 90 95

Glu Gly Ser Asp Arg Gly Pro Glu Ser Pro Glu Leu Pro Thr Pro Ser
100 105 110

Glu Asn Ser Met Pro Pro Gly Leu Ser Thr Pro Thr Ala Ser Gln Glu
115 120 125

Gly Ala Gly Pro Val Pro Asp Pro Ser Gln Pro Thr Arg Arg Gln Ile
130 135 140

Arg Leu Ser Ser Pro Glu Arg Gln Arg Leu Ser Ser Leu Asn Leu Thr
145 150 155 160

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asp | Pro | Glu | Met | Glu | Pro | Pro | Pro | Lys | Pro | Pro | Arg | Ser | Cys | Ser |
| | | | | 165 | | | | | 170 | | | | | 175 | |

Ala Leu Ala Arg His Ala Leu Glu Ser Ser Phe Val Gly Trp Gly Leu
180 185 190

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Gln | Ser | Pro | Gln | Ala | Leu | Val | Ala | Met | Glu | Lys | Glu | Glu | Lys |
| | | 195 | | | | | 200 | | | | | 205 | | | |

Glu Ser Pro Phe Ser Ser Glu Glu Glu Glu Glu Asp Val Pro Leu Asp
210 215 220

5554

Ser Asp Val Glu Gln Ala Leu Gln Thr Phe Ala Lys Thr Ser Gly Thr
 225 230 235 240
 Met Asn Asn Tyr Pro Thr Trp Arg Arg Thr Leu Leu Arg Arg Ala Lys
 245 250 255
 Glu Glu Glu Met Lys Arg Phe Cys Lys Ala Gln Thr Ile Gln Arg Arg
 260 265 270
 Leu Asn Glu Ile Glu Ala Ala Leu Arg Glu Leu Glu Ala Glu Gly Val
 275 280 285
 Lys Leu Glu Leu Ala Leu Arg Arg Gln Ser Ser Ser Pro Glu Gln Gln
 290 295 300
 Lys Lys Leu Trp Val Gly Gln Leu Leu Gln Leu Val Asp Lys Lys Asn
 305 310 315 320
 Ser Leu Val Ala Glu Glu Ala Glu Leu Met Ile Thr Val Gln Glu Leu
 325 330 335
 Asn Leu Glu Glu Lys Gln Trp Gln Leu Asp Gln Glu Leu Arg Gly Tyr
 340 345 350
 Met Asn Arg Glu Glu Asn Leu Lys Thr Ala Ala Asp Arg Gln Ala Glu
 355 360 365
 Asp Gln Val Leu Arg Lys Leu Val Asp Leu Val Asn Gln Arg Asp Ala
 370 375 380
 Leu Ile Arg Phe Gln Glu Glu Arg Arg Leu Ser Glu Leu Ala Leu Gly
 385 390 395 400
 Thr Gly Ala Gln Gly
 405

<210> 6324

<211> 114

<212> PRT

<213> Homo sapiens

<400> 6324

Leu Ile Lys Trp Lys Ile Ser Lys Glu Cys Lys Ile Ile Trp Gly Glu
 1 5 10 15
 Ser Cys Lys Met Trp Ser Phe Phe Thr Thr Asn Ile Phe Ser Pro Ser
 20 25 30
 Asp Val Tyr Met Phe Tyr Asp Leu Lys Tyr Gln Thr Met Val Cys Asp

5555

35 40 45
 Ile Met Gly Leu Pro Leu Ala Gln Lys Arg Leu Leu Leu Ser Ser Ala
 50 55 60
 Cys Leu Met Thr Ile Gly Trp Ser Leu Leu Ser Leu Asn Phe Tyr Phe
 65 70 75 80
 Leu Ile Ile Leu Val Ala Ile Arg Leu Lys Arg Glu Cys Thr Trp Glu
 85 90 95
 Arg Ile Leu Lys Thr Asp Gln Ser Val Lys Cys His Val Leu Glu Lys
 100 105 110
 Ile Lys

<210> 6325
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 6325
 Asn Thr Ala Thr Tyr Pro Gly Asn Met Lys Ile Leu Phe Val Glu Pro
 1 5 10 15
 Ala Ile Phe Leu Ser Ala Phe Ala Met Thr Leu Thr Gly Pro Leu Thr
 20 25 30
 Thr Gln Tyr Val Tyr Arg Arg Ile Trp Glu Glu Thr Gly Asn Tyr Thr
 35 40 45
 Phe Ser Ser Asp Ser Asn Ile Ser Glu Cys Glu Lys Asn Lys Ser Ser
 50 55 60
 Pro Ile Phe Ala Phe Gln Glu Val Arg Asn Tyr Asn Ile His Ser Ile
 65 70 75 80

<210> 6326
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 6326

5556

Phe Met Ile Trp Asn Ser Ile His Pro Phe Ser Gly Ile Lys Thr Phe
 1 5 10 15

Leu Asp Phe Phe Arg Ile Gly Ser Glu Leu Val Tyr Tyr Leu Ala Phe
 20 25 30

Ser Phe

<210> 6327

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6327

Cys Arg Leu Val Lys Ala Ser Leu Asp Glu Lys Ser Ala Thr Gly Trp
 1 5 10 15

Pro Pro Val Cys Phe Ala Met Arg Ile Asn Leu Leu Phe Val Cys Leu
 20 25 30

Lys Thr Pro Ile Ser Glu Ser Ser Val Leu Met Phe Val Glu His Asn
 35 40 45

Leu Ile Lys Asn Ile Lys Ile Phe Thr Leu Ala Phe Thr Leu Thr Val
 50 55 60

Xaa Gly Gly Xaa
 65

<210> 6328

<211> 25

<212> PRT

<213> Homo sapiens

<400> 6328

Gly Leu Leu Leu Val Pro Asn Ser Cys Arg Pro Gly Asp Pro Leu Val

5557

1 5 10 15
 Leu Glu Arg Pro Pro Pro Arg Trp Ser
 20 25

 <210> 6329
 <211> 106
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (79)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6329
 Lys Gly Val Pro Arg Ala Gln Gln Gly Ala Lys Ser Gly Asp Ile Ala
 1 5 10 15

 Ser Glu His Pro Thr Cys Ala Thr His Val His Pro Pro Thr His Thr
 20 25 30

 His Ala His Ser His Ala His Ser His Ala His Ser His Ala His Ser
 35 40 45

 His Ala His Ser His Ala His Ser His Ala His Ser His Ala His Ser
 50 55 60

 His Ala His Thr Ala Trp Thr Leu Phe Pro Leu Cys Pro Trp Xaa His
 65 70 75 80

 Thr Pro Ser Lys Pro Leu Thr Phe Ile Ser Pro Cys Val Phe Ser Lys
 85 90 95

 Lys Val Tyr Gln Ala Arg Pro Pro Gly Gly
 100 105

<210> 6330
 <211> 147
 <212> PRT
 <213> Homo sapiens

<400> 6330
 Asn Phe Pro Leu Pro Gly Gly Glu Lys Gln Arg Val Ala Ile Ala Arg
 1 5 10 15

 Ala Ile Leu Lys Asp Pro Pro Val Ile Leu Tyr Asp Glu Ala Thr Ser

5558

[illegible]

<210> 6331

<211> 176

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6331

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Gln | Gln | Leu | Met | Asp | Leu | Thr | Ala | Asn | Leu | Asn | Leu | Leu | Trp | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Ala | Pro | Phe | Gln | Ile | Leu | Met | Ala | Val | Tyr | Leu | Leu | Trp | Gln | Glu | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Gly | Pro | Ala | Val | Leu | Ala | Gly | Val | Ala | Val | Leu | Val | Phe | Val | Ile | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Ile | Asn | Ala | Leu | Ala | Ala | Thr | Lys | Ile | Lys | Lys | Leu | Lys | Val | Ser | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

5559

Ala Thr Leu Cys Val Tyr Phe Leu Leu Asp Glu Gly Asn Ile Leu Thr
 65 70 75 80

Ala Thr Lys Val Phe Thr Ser Met Ser Leu Phe Asn Ile Leu Arg Ile
 85 90 95

Pro Leu Phe Glu Leu Pro Thr Val Ile Ser Ala Val Val Gln Thr Lys
 100 105 110

Ile Ser Leu Gly Arg Leu Glu Asp Phe Leu Asn Thr Glu Glu Leu Leu
 115 120 125

Pro Gln Ser Ile Glu Thr Asn Tyr Thr Gly Asp His Ala Ile Gly Phe
 130 135 140

Thr Asp Ala Ser Phe Ser Trp Asp Lys Thr Gly Met Pro Val Leu Lys
 145 150 155 160

Glu Ala Leu Trp Leu Met Xaa Leu Asn Lys Pro Gly Phe Lys Ile Ala
 165 170 175

<210> 6332

<211> 129

<212> PRT

<213> Homo sapiens

<400> 6332

Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Ala
 1 5 10 15

Lys Cys Tyr His Glu Arg Arg Lys Leu Asp Phe Phe Val Leu Ile Met
 20 25 30

Ala Ser Thr Cys Thr Phe Pro Glu Trp Ser Leu Leu Arg Pro Phe Leu
 35 40 45

Val Pro Phe Gln Ser Cys Pro His His Pro Ala Pro Leu Ala Ser Val
 50 55 60

His Ser Gly Pro Gln Pro Arg Pro Gly Leu Leu Cys Ser Ala Pro Thr
 65 70 75 80

Ala His His Pro Ser Cys Phe Pro Glu Pro Asp Pro Val Pro Pro Thr
 85 90 95

Gly Asn Gln Gly Cys Ala Leu Pro Cys Pro Arg Ser Pro Gly Leu Pro

5560

100 105 110
 Val Leu Ser Leu Leu Ile Ile Ile Asn Ser Gly Phe Gln Leu Gln Pro
 115 120 125

Arg

<210> 6333

<211> 93

<212> PRT .

<213> Homo sapiens

<400> 6333

Asp Phe Gln Ile Asp Lys Cys Thr Gly Tyr Val Glu Val Gln Lys Ser
 1 5 10 15

Ile Thr Val Leu Gln His Ile Tyr Leu Gly Asn Leu Lys His Val Leu
 20 25 30

Leu Met Tyr Gln Ala Val Cys Cys Ser Gln Arg Asp Pro Ile Ser Ala
 35 40 45

Leu Gly Ile Leu Gly Glu Asn Met Tyr Lys Glu Ile Val Leu Ala His
 50 55 60

Ser Ser Lys Gly Ser Asp Gln Gly His Leu Ala Leu Arg Gly Asn Leu
 65 70 75 80

Gly Lys Val Pro Trp Arg Met Arg Leu Leu Leu Lys Ser
 85 90

<210> 6334

<211> 76

<212> PRT

<213> Homo sapiens

<400> 6334

Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg
 1 5 10 15

Val Arg Asn Arg Glu Arg Lys Gly Gln Arg Trp Lys Ile Leu Phe Tyr
 20 25 30

Cys Phe Asp Phe Arg His Pro Glu Arg Val Thr Asn Phe Lys Thr Leu
 35 40 45

5561

Asn Lys Val Ala Leu Cys Trp Gly Arg Asn Leu Ala Ile Leu Val Thr
 50 55 60

Leu Lys Ser Arg Tyr Pro Phe Ser Leu Glu Ser Pro
 65 70 75

<210> 6335

<211> 349

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (340)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6335

Arg Asn Val Gln Leu Leu Thr Ala Ala Glu Thr Trp Glu Pro Arg Gly
 1 5 10 15

Pro Leu Ser Ser Gln Pro Pro Pro Pro Ser Ser Arg Ala Gly Pro Pro
 20 25 30

Arg Pro Arg Leu Leu Leu Thr Pro Arg Pro Gly Ala Arg Phe Cys Gly
 35 40 45

Ser Ile Ile Leu Cys His Tyr Glu Met Ser Ser Leu Gly Ala Ser Phe
 50 55 60

Val Gln Ile Lys Phe Asp Asp Leu Gln Phe Phe Glu Asn Cys Gly Gly
 65 70 75 80

Gly Ser Phe Gly Ser Val Tyr Arg Ala Lys Trp Ile Ser Gln Asp Lys
 85 90 95

Glu Val Ala Val Lys Lys Leu Leu Lys Ile Glu Lys Glu Ala Glu Ile
 100 105 110

Leu Ser Val Leu Ser His Arg Asn Ile Ile Gln Phe Tyr Gly Val Ile
 115 120 125

Leu Glu Pro Pro Asn Tyr Gly Ile Val Thr Glu Tyr Ala Ser Leu Gly
 130 135 140

Ser Leu Tyr Asp Tyr Ile Asn Ser Asn Arg Ser Glu Glu Met Asp Met
 145 150 155 160

Asp His Ile Met Thr Trp Ala Thr Asp Val Ala Lys Gly Met His Tyr
 165 170 175

5562

Leu His Met Glu Ala Pro Val Lys Val Ile His Arg Asp Leu Lys Ser
 180 185 190
 Arg Asn Val Val Ile Ala Ala Asp Gly Val Leu Lys Ile Cys Asp Phe
 195 200 205
 Gly Ala Ser Arg Phe His Asn His Thr Thr His Met Ser Leu Val Gly
 210 215 220
 Thr Phe Pro Trp Met Ala Pro Glu Val Ile Gln Ser Leu Pro Val Ser
 225 230 235 240
 Glu Thr Cys Asp Thr Tyr Ser Tyr Gly Val Val Leu Trp Glu Met Leu
 245 250 255
 Thr Arg Glu Val Pro Phe Lys Gly Leu Glu Gly Leu Gln Val Ala Trp
 260 265 270
 Leu Val Val Glu Lys Asn Glu Arg Leu Thr Ile Pro Ser Ser Cys Pro
 275 280 285
 Arg Ser Phe Ala Glu Leu Leu His Gln Cys Trp Glu Ala Asp Ala Lys
 290 295 300
 Lys Arg Pro Ser Phe Lys Gln Ile Ile Ser Ile Leu Glu Ser Met Ser
 305 310 315 320
 Asn Asp Thr Ser Leu Leu Thr Ser Val Thr His Ser Tyr Thr Thr Arg
 325 330 335
 Arg Ser Gly Xaa Ala Lys Leu Arg Gln Leu Leu Arg Gly
 340 345

<210> 6336

<211> 65

<212> PRT

<213> Homo sapiens

<400> 6336

His Phe Gly Arg Pro Arg Gln Ala Asp His Leu Arg Ser Gly Val Gln
 1 5 10 15
 Asn Gln Pro Gly Gln Asp Gly Glu Thr Pro Ser Leu Leu Lys Ile Gln
 20 25 30
 Lys Lys Ile Ser Arg Ala Trp Trp His Val Pro Val Ile Pro Ala Thr
 35 40 45

5563

Trp Glu Thr Glu Ala Gly Glu Leu Leu Glu Pro Gly Arg Arg Arg Leu
 50 55 60

Gln
 65

<210> 6337
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 6337
 Ser Arg Asp Trp Val Thr Asn Asn Thr Arg Thr Lys Leu Arg Asp His
 1 5 10 15
 Tyr Ser Ser Ile Ser Pro Ser Phe His Lys Thr Ala Val Lys Met Phe
 20 25 30
 Asp Ile Lys Ala Trp Ala Glu Tyr Val Val Glu Trp Ala Ala Lys Asp
 35 40 45
 Pro Tyr Gly Phe Leu Thr Thr Val Ile Leu Ala Leu Thr Pro Leu Phe
 50 55 60
 Leu Ala Ser Ala Val Leu Ser Trp Lys Leu Ala Lys Met Ile Glu Ala
 65 70 75 80
 Arg Glu Lys Glu Gln Lys Lys Lys Gln Lys Arg Gln Glu Asn Ile Ala
 85 90 95
 Lys Ala Lys Arg Leu Lys Lys Asp
 100

<210> 6338
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 6338
 Thr His Trp Phe Gln Arg Pro Leu Arg Met Cys Leu Pro Ser Gln Ile
 1 5 10 15
 Trp Ala Phe Pro Val Pro Lys His His Leu Gly Gly Ser Leu Trp Val
 20 25 30
 Leu Ile Ser Ser His Met Phe Thr Pro His Val Gly Leu Pro Asn Cys
 35 40 45

5564

Pro Pro Gln Gly Lys Pro Phe Leu Pro Thr Ser Arg Lys Leu Leu Val
 50 55 60

Pro Trp Pro Ser His Thr Ser Asp Leu Val Pro Leu Pro Gly Pro Val
 65 70 75 80

Gly Phe Asn Asn Leu Val Ser Ser Leu Pro Arg Asn Pro Leu Cys Leu
 85 90 95

Glu Cys Ser Pro Pro Ser Gln Pro Leu Ser His Thr Ile Phe Ser Phe
 100 105 110

Leu Ser Ser Thr Lys Arg Trp Asp Lys Pro Val Cys Thr Gln Cys Leu
 115 120 125

Trp Asp Asn Arg Arg Arg Asn Leu Glu Phe Gly Trp Val Ile Lys Leu
 130 135 140

Trp Asn
 145

<210> 6339

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6339

Ser Ile Ile Pro Phe Lys Cys Tyr Phe Gln Phe Trp Gly Ile Phe Phe
 1 5 10 15

Phe Trp Ser Phe Cys Cys Xaa Cys Ser Phe Phe Thr Ile Pro Lys Met
 20 25 30

5565

Leu Gln Gln Ile Phe Phe Tyr Arg Leu Asn Val Ala Tyr Pro Lys Tyr
 35 40 45

Leu Gly Pro Glu Val Leu Gly Ile Ser Asp Phe Gln Ile Arg Asp Xaa
 50 55 60

Xaa Pro Val Tyr Thr Ser Leu His
 65 70

<210> 6340

<211> 385

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (296)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6340

His Leu Asn Val Asp Arg Lys Arg Pro Cys Ser Ile Glu Asp Arg Arg
 1 5 10 15

Asn Trp Ser Leu Ile Gly Arg Pro Gly Ala Pro Ala Ser Gly Leu Asn
 20 25 30

Arg Ser Ser Gly Leu Trp Leu Gly Pro Asp Arg Cys Arg Pro Arg Ser
 35 40 45

Arg Cys Ser Cys Arg Val Met Glu Asn Pro Ser Pro Ala Ala Ala Leu
 50 55 60

Gly Lys Ala Leu Cys Ala Leu Leu Leu Ala Thr Leu Gly Ala Ala Gly
 65 70 75 80

Gln Pro Leu Gly Gly Glu Ser Ile Cys Ser Ala Arg Ala Pro Ala Lys
 85 90 95

Tyr Ser Ile Thr Phe Thr Gly Lys Trp Ser Gln Thr Ala Phe Pro Lys
 100 105 110

Gln Tyr Pro Leu Phe Arg Pro Pro Ala Gln Trp Ser Ser Leu Leu Gly
 115 120 125

5566

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | His | Ser | Ser | Asp | Tyr | Ser | Met | Trp | Arg | Lys | Asn | Gln | Tyr | Val | 130 | 135 | 140 | |
| Ser | Asn | Gly | Leu | Arg | Asp | Phe | Ala | Glu | Arg | Gly | Glu | Ala | Trp | Ala | Leu | 145 | 150 | 155 | 160 |
| Met | Lys | Glu | Ile | Glu | Ala | Ala | Gly | Glu | Ala | Leu | Gln | Ser | Val | His | Xaa | 165 | 170 | 175 | |
| Val | Phe | Ser | Ala | Pro | Ala | Val | Pro | Ser | Gly | Thr | Gly | Gln | Thr | Ser | Ala | 180 | 185 | 190 | |
| Glu | Leu | Glu | Val | Gln | Arg | Arg | His | Ser | Leu | Val | Ser | Phe | Val | Val | Arg | 195 | 200 | 205 | |
| Ile | Val | Pro | Ser | Pro | Asp | Trp | Phe | Val | Gly | Val | Asp | Ser | Leu | Asp | Leu | 210 | 215 | 220 | |
| Cys | Asp | Gly | Asp | Arg | Trp | Arg | Glu | Gln | Ala | Ala | Leu | Asp | Leu | Tyr | Pro | 225 | 230 | 235 | 240 |
| Tyr | Asp | Ala | Gly | Thr | Asp | Ser | Gly | Phe | Thr | Phe | Ser | Ser | Pro | Asn | Phe | 245 | 250 | 255 | |
| Ala | Thr | Ile | Pro | Gln | Asp | Thr | Val | Thr | Glu | Ile | Thr | Ser | Ser | Ser | Pro | 260 | 265 | 270 | |
| Ser | His | Pro | Ala | Asn | Ser | Phe | Tyr | Tyr | Pro | Arg | Leu | Lys | Ala | Leu | Pro | 275 | 280 | 285 | |
| Pro | Ile | Ala | Arg | Val | Thr | Leu | Xaa | Arg | Leu | Arg | Gln | Ser | Pro | Arg | Ala | 290 | 295 | 300 | |
| Phe | Ile | Pro | Pro | Ala | Pro | Val | Leu | Pro | Ser | Arg | Asp | Asn | Glu | Ile | Val | 305 | 310 | 315 | 320 |
| Asp | Ser | Ala | Ser | Val | Pro | Glu | Thr | Pro | Leu | Asp | Cys | Glu | Val | Ser | Leu | 325 | 330 | 335 | |
| Trp | Ser | Ser | Trp | Gly | Leu | Cys | Gly | Gly | His | Cys | Gly | Arg | Leu | Gly | Thr | 340 | 345 | 350 | |
| Lys | Ser | Arg | Thr | Arg | Tyr | Val | Arg | Val | Gln | Pro | Ala | Asn | Asn | Gly | Ser | 355 | 360 | 365 | |
| Pro | Cys | Pro | Glu | Leu | Glu | Glu | Glu | Ala | Glu | Cys | Val | Pro | Asp | Asn | Cys | 370 | 375 | 380 | |
| Val | | | | | | | | | | | | | | | | 385 | | | |

5567

<210> 6341

<211> 124

<212> PRT

<213> Homo sapiens

<400> 6341

Arg Pro Ala Cys Pro Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr
 1 5 10 15

Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Leu Cys
 20 25 30

Arg Lys Met Gly Val Pro Tyr Cys Ile Ile Lys Gly Lys Ala Arg Leu
 35 40 45

Gly Arg Leu Val His Arg Lys Thr Cys Thr Thr Val Ala Phe Thr Gln
 50 55 60

Val Asn Ser Glu Asp Lys Gly Ala Leu Ala Lys Leu Val Glu Ala Ile
 65 70 75 80

Arg Thr Asn Tyr Asn Asp Arg Tyr Asp Glu Ile Arg Arg His Trp Gly
 85 90 95

Gly Asn Val Leu Gly Pro Lys Ser Val Ala Arg Ile Ala Lys Leu Glu
 100 105 110

Lys Ala Lys Ala Lys Glu Leu Ala Thr Lys Leu Gly
 115 120

<210> 6342

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6342

Ala Trp Lys Arg Arg Arg Glu Val Lys Asp Gln Ser Leu Ile Gly Thr
 1 5 10 15

Gly Ser His Ser Gly Ser Ser Leu Gln Ser Asp Pro His Phe Gly Cys
 20 25 30

5568

Ser Leu Gly Pro Ser Ser Gly Pro Arg Ser Ile Arg Leu His Pro Pro
 35 40 45

Ser Leu Phe Arg Ile Leu Ser Cys Ala Xaa Pro Thr Pro Gly Ser Arg
 50 55 60

Ser Gln Thr Ser Ser His Gly Trp Ser Leu Leu Pro Ser Ala Val Arg
 65 70 75 80

Pro Pro Gly Thr Gln Ala Pro Gly Phe Gly Arg Ser Gly Val Ser Ser
 85 90 95

Arg Trp Val Ser Ala Pro Thr Gly Thr Cys Thr Ser Cys Gln
 100 105 110

<210> 6343

<211> 226

<212> PRT

<213> Homo sapiens

<400> 6343

Thr Glu Gly Tyr Gly Cys Gln Lys Thr Thr Glu Gly Tyr Gly Cys Glu
 1 5 10 15

Lys Thr Thr Glu Gly Tyr Gly Cys Glu Lys Thr Thr Glu Gly Gly Ser
 20 25 30

Ser Ser Phe Ala Pro Arg Val His Gly Ser Ser Phe Ser Phe Pro Leu
 35 40 45

Gly Arg Glu Glu Ala Met Ala Ala Met Ala Ser Leu Gly Ala Leu Ala
 50 55 60

Leu Leu Leu Leu Ser Ser Leu Ser Arg Cys Ser Ala Glu Ala Cys Leu
 65 70 75 80

Glu Pro Gln Ile Thr Pro Ser Tyr Tyr Thr Thr Ser Asp Ala Val Ile
 85 90 95

Ser Thr Glu Thr Val Phe Ile Val Glu Ile Ser Leu Thr Cys Lys Asn
 100 105 110

Arg Val Gln Asn Met Ala Leu Tyr Ala Asp Val Gly Gly Lys Gln Phe
 115 120 125

Pro Val Thr Arg Gly Gln Asp Val Gly Arg Tyr Gln Val Ser Trp Ser
 130 135 140

Leu Asp His Lys Ser Ala His Ala Gly Thr Tyr Glu Val Arg Phe Phe

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|-----|
| 145 | | | | | | 150 | | | | | | 155 | | | | | | 160 |
| Asp | Glu | Glu | Ser | Tyr | Ser | Leu | Leu | Arg | Lys | Ala | Gln | Arg | Asn | Asn | Glu | | | |
| | | | | 165 | | | | | 170 | | | | | 175 | | | | |
| Asp | Ile | Ser | Ile | Ile | Pro | Pro | Leu | Phe | Thr | Val | Ser | Val | Asp | His | Arg | | | |
| | | | | 180 | | | | | 185 | | | | | 190 | | | | |
| Gly | Thr | Trp | Asn | Gly | Pro | Trp | Val | Ser | Thr | Glu | Val | Leu | Ala | Ala | Ala | | | |
| | | | | 195 | | | | | 200 | | | | | 205 | | | | |
| Ile | Gly | Leu | Val | Ile | Tyr | Tyr | Leu | Ala | Phe | Ser | Ala | Lys | Ser | His | Ile | | | |
| | | | | 210 | | | | | 215 | | | | | 220 | | | | |
| Gln | Ala | | | | | | | | | | | | | | | | | |
| 225 | | | | | | | | | | | | | | | | | | |

Gly Gly Gly Ser Gly Ser Tyr Glu Glu Gly Cys Gln Ser Leu Met Glu
100 105 110

5570

Tyr Ala Trp Gly Arg Ala Ala Ala Met Leu Phe Cys Gly Phe Ile
 115 120 125
 Ile Leu Val Ile Cys Phe Ile Leu Ser Phe Phe Ala Leu Cys Gly Pro
 130 135 140
 Gln Met Leu Val Phe Leu Arg Val Ile Gly Gly Leu Leu Ala Leu Ala
 145 150 155 160
 Ala Val Phe Gln Ile Ile Ser Leu Val Ile Tyr Pro Val Lys Tyr Thr
 165 170 175
 Gln Thr Phe Thr Leu His Ala Asn Xaa Ala Val Thr Tyr Ile Tyr Asn
 180 185 190
 Trp Ala Tyr Gly Phe Gly Trp Ala Ala Thr Ile Ile Leu Ile Gly Cys
 195 200 205
 Ala Phe Phe Phe Cys Cys Leu Pro Asn Tyr Glu Asp Asp Leu Leu Gly
 210 215 220
 Asn Ala Lys Pro Arg Tyr Phe Tyr Thr Ser Ala
 225 230 235

<210> 6345

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6345

Gly Asn Leu His Gly Ile Leu Arg Asp Phe Tyr Ser Pro Leu Val Pro
 1 5 10 15
 Asp Ser Met Lys Phe Glu Ile Gly Glu Ala Leu Tyr Leu Gly Ile Ile
 20 25 30
 Ser Ser Leu Phe Ser Leu Ile Ala Gly Ile Ile Leu Cys Phe Ser Cys
 35 40 45
 Ser Ser Gln Arg Asn Arg Ser Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln
 50 55 60
 Pro Leu Ala Thr Arg Ser Ser Pro Arg Pro Gly Gln Pro Pro Lys Val
 65 70 75 80

5571

Lys Ser Glu Phe Asn Ser Tyr Xaa
85

<210> 6346
<211> 105
<212> PRT
<213> Homo sapiens

<400> 6346
Gly Ser Val Ala Gln Ser Arg Pro Ala Tyr Leu Ser Lys Asn Ser Lys
1 5 10 15
Ser Leu Ser Gln Pro Thr Gly Leu Asn Leu His Trp Lys Pro Thr Cys
20 25 30
Trp His Pro Arg Ser Pro Thr Leu Leu Ala Trp Val Gly Glu Ala Lys
35 40 45
Asp His Pro Lys Phe Thr His Leu Ser Ser Ala Ala Ser His Trp Ala
50 55 60
Ser Ala Ala Pro Gln His Gln Phe Thr Gly His Pro Ser Leu Leu Ala
65 70 75 80
Leu Ser Pro Asn Leu Leu Ser Ile Pro Arg Ser Asn Leu Pro Leu Arg
85 90 95
Ser Ala Arg Asn Ser Phe Arg Pro His
100 105

<210> 6347
<211> 105
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5572

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6347

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Cys | Cys | Leu | Pro | Glu | Asp | Gly | Lys | Ala | Asp | Ile | Val | Arg | Ala | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Asp | Phe | Cys | Gln | Xaa | Val | Ala | Gln | Lys | Gln | Xaa | Arg | Pro | Thr | Asp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asp | Val | Asp | Thr | Leu | Ala | Ser | Leu | Leu | Ser | Ser | Asn | Gly | Cys | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Pro | Asp | Leu | Val | Leu | Lys | Phe | Gly | Pro | Val | Asp | Ser | Thr | Xaa | Gly |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Leu | Pro | Trp | His | Ile | Arg | Leu | Thr | Glu | Ile | Val | Ser | Leu | Pro | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Leu | Asn | Ile | Ser | Tyr | Glu | Asp | Phe | Phe | Ser | Ala | Leu | Arg | Gln | Tyr |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Cys | Glu | Gln | Arg | Leu | Gly | Lys |
| | | 100 | | | | | | 105 |

<210> 6348

<211> 81

<212> PRT

<213> Homo sapiens

<400> 6348

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Phe | Asp | Ile | Ser | Lys | His | Leu | His | Gly | Asn | His | Tyr | Ile | Asp | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Cys | Gly | Phe | Ser | Ser | Tyr | Val | His | Leu | Thr | Arg | Ile | Tyr | Tyr | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Tyr | Asn | Leu | Gln | Met | Ser | His | Leu | Ile | Ile | Phe | Tyr | Asn | Ile | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Phe | Ile | Lys | Val | Leu | Leu | Glu | Lys | Tyr | Leu | Pro | Gln | Arg | Ser | Phe |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | His | Cys | Val | Arg | Cys | Val | Phe | Glu | Pro | Thr | Met | Thr | Glu | Ser | Lys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

Phe

5573

<210> 6349

<211> 100

<212> PRT

<213> Homo sapiens

<400> 6349

Leu Lys Ile Asn Pro Ser Gly Lys Lys Lys Lys Lys Lys Asn Ser Arg
 1 5 10 15

Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser Tyr Tyr Asn Ser
 20 25 30

Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr
 35 40 45

Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn
 50 55 60

Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu
 65 70 75 80

Asn Gly Glu Trp Gln Ile Val Ser Val Asn Ile Leu Leu Lys Phe Ala
 85 90 95

Leu Asn Phe Cys
 100

<210> 6350

<211> 231

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

5574

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (102)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (202)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (203)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (230)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6350
 Arg Asp Xaa Trp Xaa Ala Ile Pro Asp Thr Ile Asp Xaa Thr Pro Ala
 1 5 10 15
 Xaa Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Pro Ala Pro
 20 25 30
 Pro Ala Met Val Val Ser Gly Ala Pro Pro Ala Leu Gly Gly Gly Cys
 35 40 45
 Leu Gly Thr Phe Thr Ser Leu Leu Leu Leu Ala Ser Thr Ala Ile Leu
 50 55 60
 Asn Ala Ala Arg Ile Pro Val Pro Pro Ala Cys Gly Lys Pro Gln Gln
 65 70 75 80
 Leu Asn Arg Val Val Gly Gly Glu Asp Ser Thr Asp Ser Glu Trp Pro
 85 90 95
 Trp Ile Val Ser Ile Xaa Lys Asn Gly Thr His His Cys Ala Gly Ser
 100 105 110
 Leu Leu Thr Ser Arg Trp Val Ile Thr Ala Ala His Cys Phe Lys Asp
 115 120 125

5575

Asn Leu Asn Lys Pro Tyr Leu Phe Ser Val Leu Leu Gly Ala Trp Gln
 130 135 140
 Leu Gly Asn Pro Gly Ser Arg Ser Gln Lys Val Gly Val Ala Trp Val
 145 150 155 160
 Glu Pro His Pro Val Tyr Ser Trp Lys Glu Gly Ala Cys Ala Asp Ile
 165 170 175
 Ala Leu Val Arg Leu Glu Arg Ser Ile Gln Phe Ser Glu Arg Val Leu
 180 185 190
 Pro Ile Cys Leu Pro Asp Ala Ser Ile Xaa Xaa Pro Pro Asn Thr His
 195 200 205
 Cys Trp Ile Ser Gly Trp Gly Ser Ile Gln Asp Gly Val Pro Leu Pro
 210 215 220
 Thr Leu Arg Pro Cys Xaa Ser
 225 230

<210> 6351

<211> 240

<212> PRT

<213> Homo sapiens

<400> 6351

Gly Phe Pro Gly Thr Gly Ser Gly Gln Gly Ile Arg Pro Thr His Pro
 1 5 10 15
 Arg Gly Lys Pro Gly Pro Ser Gly Ala Asp Arg Gly Pro His Gly Pro
 20 25 30
 Arg Gly Gly Arg Arg Arg Leu Gly Val Ala Gly Arg Ala Ser Arg Val
 35 40 45
 Asp Arg Ala His Ala Ala Ala Ala His Thr Gly Leu Gly Glu Glu Phe
 50 55 60
 His Asp Val Glu Asp Ala Glu Thr Tyr Lys Lys Met Leu Ala Arg Asp
 65 70 75 80
 Glu Arg Arg Phe Arg Val Ala Asp Gln Asp Gly Asp Ser Met Ala Thr
 85 90 95
 Arg Glu Glu Leu Thr Ala Phe Leu His Pro Glu Glu Phe Pro His Met
 100 105 110
 Arg Asp Ile Val Ile Ala Glu Thr Leu Glu Asp Leu Asp Arg Asn Lys

5576

| | | |
|---|-----|-----|
| 115 | 120 | 125 |
| Asp Gly Tyr Val Gln Val Glu Glu Tyr Ile Ala Asp Leu Tyr Ser Ala | | |
| 130 | 135 | 140 |
| Glu Pro Gly Glu Glu Glu Pro Ala Trp Val Gln Thr Glu Arg Gln Gln | | |
| 145 | 150 | 155 |
| Phe Arg Asp Phe Arg Asp Leu Asn Lys Asp Gly His Leu Asp Gly Ser | | |
| | 165 | 170 |
| Glu Val Gly His Trp Val Leu Pro Pro Ala Gln Asp Gln Pro Leu Val | | |
| | 180 | 185 |
| Glu Ala Asn His Leu Leu His Glu Ser Asp Thr Asp Lys Asp Gly Arg | | |
| | 195 | 200 |
| Leu Ser Lys Ala Glu Ile Leu Gly Asn Trp Asn Met Phe Val Gly Ser | | |
| | 210 | 215 |
| Gln Ala Thr Asn Tyr Gly Glu Asp Leu Thr Arg His His Asp Glu Leu | | |
| 225 | 230 | 235 |
| | | 240 |

<210> 6352

<211> 505

<212> PRT

<213> Homo sapiens

<400> 6352

| |
|---|
| His Arg Arg Gly Ser Ile Pro Arg Gln Gln Leu Ser Pro Thr Ala Phe |
| 1 5 10 15 |
| Pro Ala Arg Asn His Leu Ser Thr Ile Pro Trp Gly Leu Pro Arg Thr |
| 20 25 30 |
| Ile Glu Glu Leu Arg Leu Asp Asp Asn Arg Ile Ser Thr Ile Ser Ser |
| 35 40 45 |
| Pro Ser Leu Gln Gly Leu Thr Ser Leu Lys Arg Leu Val Leu Asp Gly |
| 50 55 60 |
| Asn Leu Leu Asn Asn His Gly Leu Gly Asp Lys Val Phe Phe Asn Leu |
| 65 70 75 80 |
| Val Asn Leu Thr Glu Leu Ser Leu Val Arg Asn Ser Leu Thr Ala Ala |
| 85 90 95 |

5577

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Asn | Leu | Pro | Gly | Thr | Asn | Leu | Arg | Lys | Leu | Tyr | Leu | Gln | Asp | 100 | 105 | 110 |
| Asn | His | Ile | Asn | Arg | Val | Pro | Pro | Asn | Ala | Phe | Ser | Tyr | Leu | Arg | Gln | 115 | 120 | 125 |
| Leu | Tyr | Arg | Leu | Asp | Met | Ser | Asn | Asn | Asn | Leu | Ser | Asn | Leu | Pro | Gln | 130 | 135 | 140 |
| Gly | Ile | Phe | Asp | Asp | Leu | Asp | Asn | Ile | Thr | Gln | Leu | Ile | Leu | Arg | Asn | 145 | 150 | 155 |
| Asn | Pro | Trp | Tyr | Cys | Gly | Cys | Lys | Met | Lys | Trp | Val | Arg | Asp | Trp | Leu | 165 | 170 | 175 |
| Gln | Ser | Leu | Pro | Val | Lys | Val | Asn | Val | Arg | Gly | Leu | Met | Cys | Gln | Ala | 180 | 185 | 190 |
| Pro | Glu | Lys | Val | Arg | Gly | Met | Ala | Ile | Lys | Asp | Leu | Asn | Ala | Glu | Leu | 195 | 200 | 205 |
| Phe | Asp | Cys | Lys | Asp | Ser | Gly | Ile | Val | Ser | Thr | Ile | Gln | Ile | Thr | Thr | 210 | 215 | 220 |
| Ala | Ile | Pro | Asn | Thr | Val | Tyr | Pro | Ala | Gln | Gly | Gln | Trp | Pro | Ala | Pro | 225 | 230 | 235 |
| Val | Thr | Lys | Gln | Pro | Asp | Ile | Lys | Asn | Pro | Lys | Leu | Thr | Lys | Asp | Gln | 245 | 250 | 255 |
| Gln | Thr | Thr | Gly | Ser | Pro | Ser | Arg | Lys | Thr | Ile | Thr | Ile | Thr | Val | Lys | 260 | 265 | 270 |
| Ser | Val | Thr | Ser | Asp | Thr | Ile | His | Ile | Ser | Trp | Lys | Leu | Ala | Leu | Pro | 275 | 280 | 285 |
| Met | Thr | Ala | Leu | Arg | Leu | Ser | Trp | Leu | Lys | Leu | Gly | His | Ser | Pro | Ala | 290 | 295 | 300 |
| Phe | Gly | Ser | Ile | Thr | Glu | Thr | Ile | Val | Thr | Gly | Glu | Arg | Ser | Glu | Tyr | 305 | 310 | 315 |
| Leu | Val | Thr | Ala | Leu | Glu | Pro | Asp | Ser | Pro | Tyr | Lys | Val | Cys | Met | Val | 325 | 330 | 335 |
| Pro | Met | Glu | Thr | Ser | Asn | Leu | Tyr | Leu | Phe | Asp | Glu | Thr | Pro | Val | Cys | 340 | 345 | 350 |
| Ile | Glu | Thr | Glu | Thr | Ala | Pro | Leu | Arg | Met | Tyr | Asn | Pro | Thr | Thr | Thr | 355 | 360 | 365 |

5578

Leu Asn Arg Glu Gln Glu Lys Glu Pro Tyr Lys Asn Pro Asn Leu Pro
 370 375 380

Leu Ala Ala Ile Ile Gly Gly Ala Val Ala Leu Val Thr Ile Ala Leu
 385 390 395 400

Leu Ala Leu Val Cys Trp Tyr Val His Arg Asn Gly Ser Leu Phe Ser
 405 410 415

Arg Asn Cys Ala Tyr Ser Lys Gly Arg Arg Arg Lys Asp Asp Tyr Ala
 420 425 430

Glu Ala Gly Thr Lys Lys Asp Asn Ser Ile Leu Glu Ile Arg Glu Thr
 435 440 445

Ser Phe Gln Met Leu Pro Ile Ser Asn Glu Pro Ile Ser Lys Glu Glu
 450 455 460

Phe Val Ile His Thr Ile Phe Pro Pro Asn Gly Met Asn Leu Tyr Lys
 465 470 475 480

Asn Asn His Ser Glu Ser Ser Ser Asn Arg Ser Tyr Arg Asp Ser Gly
 485 490 495

Ile Pro Asp Ser Asp His Ser His Ser
 500 505

<210> 6353

<211> 719

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (250)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (278)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (647)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5579

<221> SITE

$\langle 222 \rangle$ (650)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6353

Thr Ala Trp Pro Ala Ser Trp Thr Thr Pro Pro Ala Ser Ser Met Ser
1 5 10 15

Arg Asp Leu Leu Phe Lys His Tyr Cys Tyr Pro Glu Arg Asp Pro Glu
20 25 30

Glu Val Phe Ala Phe Leu Leu Arg Phe Pro His Val Ala Leu Phe Thr
35 40 45

Phe Asp Gly Leu Asp Glu Leu His Ser Asp Leu Asp Leu Ser Arg Val
50 55 60

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asp | Ser | Ser | Cys | Pro | Trp | Glu | Pro | Ala | His | Pro | Leu | Val | Leu | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

Ala Asn Leu Leu Ser Gly Lys Leu Leu Lys Gly Ala Ser Lys Leu Leu
85 90 95

Thr Ala Arg Thr Gly Ile Glu Val Pro Arg Gln Phe Leu Arg Lys Lys
100 105 110

Val Leu Leu Arg Gly Phe Ser Pro Ser His Leu Arg Ala Tyr Ala Arg
115 120 125

Arg Met Phe Pro Glu Arg Ala Leu Gln Asp Arg Leu Leu Ser Gln Leu
130 135 140

Glu Ala Asn Pro Asn Leu Cys Ser Leu Cys Ser Val Pro Leu Phe Cys
145 150 155 160

Trp Ile Ile Phe Arg Cys Phe Gln His Phe Arg Ala Ala Phe Glu Gly
165 170 175

Ser Pro Gln Leu Pro Asp Cys Thr Met Thr Leu Thr Asp Val Phe Leu
180 185 190

Leu Val Thr Glu Val His Leu Asn Arg Met Gln Pro Ser Ser Leu Val
195 200 205

Gln Arg Asn Thr Arg Ser Pro Val Glu Thr Leu His Ala Gly Arg Asp
210 215 220

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Cys | Ser | Leu | Gly | Gln | Val | Ala | His | Arg | Gly | Met | Glu | Lys | Ser |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |

Leu Phe Val Phe Thr Gln Glu Glu Val Xaa Ala Ser Gly Leu Gln Glu

5580

| | | | | | |
|---|-----|-----|-----|-----|-----|
| | 245 | | 250 | | 255 |
| Arg Asp Met Gln Leu Gly Phe Leu Arg Ala Leu Pro Glu Leu Gly Pro | 260 | 265 | 270 | | |
| Gly Gly Asp Gln Gln Xaa Tyr Glu Phe Phe His Leu Thr Leu Gln Ala | 275 | 280 | 285 | | |
| Phe Phe Thr Ala Phe Phe Leu Val Leu Asp Asp Arg Val Gly Thr Gln | 290 | 295 | 300 | | |
| Glu Leu Leu Arg Phe Phe Gln Glu Trp Met Pro Pro Ala Gly Ala Ala | 305 | 310 | 315 | 320 | |
| Thr Thr Ser Cys Tyr Pro Pro Phe Leu Pro Phe Gln Cys Leu Gln Gly | 325 | 330 | 335 | | |
| Ser Gly Pro Ala Arg Glu Asp Leu Phe Lys Asn Lys Asp His Phe Gln | 340 | 345 | 350 | | |
| Phe Thr Asn Leu Phe Leu Cys Gly Leu Leu Ser Lys Ala Lys Gln Lys | 355 | 360 | 365 | | |
| Leu Leu Arg His Leu Val Pro Ala Ala Ala Leu Arg Arg Lys Arg Lys | 370 | 375 | 380 | | |
| Ala Leu Trp Ala His Leu Phe Ser Ser Leu Arg Gly Tyr Leu Lys Ser | 385 | 390 | 395 | 400 | |
| Leu Pro Arg Val Gln Val Glu Ser Phe Asn Gln Val Gln Ala Met Pro | 405 | 410 | 415 | | |
| Thr Phe Ile Trp Met Leu Arg Cys Ile Tyr Glu Thr Gln Ser Gln Lys | 420 | 425 | 430 | | |
| Val Gly Gln Leu Ala Ala Arg Gly Ile Cys Ala Asn Tyr Leu Lys Leu | 435 | 440 | 445 | | |
| Thr Tyr Cys Asn Ala Cys Ser Ala Asp Cys Ser Ala Leu Ser Phe Val | 450 | 455 | 460 | | |
| Leu His His Phe Pro Lys Arg Leu Ala Leu Asp Leu Asp Asn Asn Asn | 465 | 470 | 475 | 480 | |
| Leu Asn Asp Tyr Gly Val Arg Glu Leu Gln Pro Cys Phe Ser Arg Leu | 485 | 490 | 495 | | |
| Thr Val Leu Arg Leu Ser Val Asn Gln Ile Thr Asp Gly Gly Val Lys | 500 | 505 | 510 | | |
| Val Leu Ser Glu Glu Leu Thr Lys Tyr Lys Ile Val Thr Tyr Leu Gly | | | | | |

5581

| | | | | |
|---|-----|-----|-----|-----|
| 515 | | 520 | | 525 |
| Leu Tyr Asn Asn Gln Ile Thr Asp Val Gly Ala Arg Tyr Val Thr Lys | | | | |
| 530 | | 535 | | 540 |
| Ile Leu Asp Glu Cys Lys Gly Leu Thr His Leu Lys Leu Gly Lys Asn | | | | |
| 545 | | 550 | | 555 |
| | | | | 560 |
| Lys Ile Thr Ser Glu Gly Gly Lys Tyr Leu Ala Leu Ala Val Lys Asn | | | | |
| | 565 | | 570 | 575 |
| Ser Lys Ser Ile Ser Glu Val Gly Met Trp Gly Asn Gln Val Gly Asp | | | | |
| | 580 | | 585 | 590 |
| Glu Gly Ala Lys Ala Phe Ala Glu Ala Leu Arg Asn His Pro Ser Leu | | | | |
| | 595 | | 600 | 605 |
| Thr Thr Leu Ser Leu Ala Ser Asn Gly Ile Ser Thr Glu Gly Gly Lys | | | | |
| | 610 | | 615 | 620 |
| Ser Leu Ala Arg Ala Leu Gln Gln Asn Thr Ser Leu Glu Ile Leu Trp | | | | |
| | 625 | | 630 | 635 |
| | | | | 640 |
| Leu Thr Gln Asn Glu Leu Xaa Asp Glu Xaa Ala Glu Ser Leu Ala Glu | | | | |
| | 645 | | 650 | 655 |
| Met Leu Lys Val Asn Gln Thr Leu Lys His Leu Trp Leu Ile Gln Asn | | | | |
| | 660 | | 665 | 670 |
| Gln Ile Thr Ala Lys Gly Thr Ala Gln Leu Ala Asp Ala Leu Gln Ser | | | | |
| | 675 | | 680 | 685 |
| Asn Thr Gly Ile Thr Glu Ile Cys Leu Asn Gly Asn Leu Ile Lys Pro | | | | |
| | 690 | | 695 | 700 |
| Glu Glu Ala Lys Val Tyr Glu Asp Glu Lys Arg Ile Ile Cys Phe | | | | |
| | 705 | | 710 | 715 |

<210> 6354

<211> 729

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5582

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6354

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Leu Ser Pro Leu Lys Leu Tyr Ala Gln Val Cys Arg Tyr Asp Leu Gly
 1             5             10             15

Pro Tyr Leu Ala Ser Leu Pro Leu Asp Ser Ser Leu Leu Xaa Gln Pro
          20             25             30

Asn Leu Val Ala Pro Thr Ser Gln Ser Leu Ile Thr Pro Pro Gln Met
          35             40             45

Thr Asn Thr Gly Asn Ala Asn Thr Pro Ser Ala Thr Leu Ala Ser Ala
 50             55             60

Ala Ser Ser Thr Met Thr Val Thr Ser Gly Val Ala Ile Ser Thr Ser
 65             70             75             80

Val Ala Thr Ala Asn Ser Thr Leu Thr Thr Ala Ser Thr Ser Ser Ser
          85             90             95

Ser Ser Ser Asn Leu Asn Ser Gly Val Ser Ser Asn Lys Leu Pro Ser
          100            105            110

Phe Pro Pro Phe Gly Ser Met Asn Ser Asn Ala Ala Gly Ser Met Ser
          115            120            125

Thr Gln Ala Asn Thr Val Gln Ser Gly Gln Leu Gly Gly Gln Gln Thr
          130            135            140

Ser Ala Leu Gln Thr Ala Gly Ile Ser Gly Glu Ser Ser Ser Leu Pro
          145            150            155            160

Thr Gln Pro His Pro Asp Val Ser Glu Ser Thr Met Asp Arg Asp Lys
          165            170            175

Val Gly Ile Pro Thr Asp Gly Asp Ser His Ala Val Thr Tyr Pro Pro
          180            185            190

Ala Ile Val Xaa Tyr Ile Ile Asp Pro Phe Thr Tyr Glu Asn Thr Asp
          195            200            205

Glu Ser Thr Asn Ser Ser Ser Val Trp Thr Leu Gly Leu Leu Arg Cys
          210            215            220

Phe Leu Glu Met Val Gln Thr Leu Pro Pro His Ile Lys Ser Thr Val
          225            230            235            240

Ser Val Gln Ile Ile Pro Cys Gln Tyr Leu Leu Gln Pro Val Lys His

```

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 245 | | | | 250 | | | | 255 | | | | | | |
| Glu | Asp | Arg | Glu | Ile | Tyr | Pro | Gln | His | Leu | Lys | Ser | Leu | Ala | Phe | Ser | | |
| | | | 260 | | | | | 265 | | | | | 270 | | | | |
| Ala | Phe | Thr | Gln | Cys | Arg | Arg | Pro | Leu | Pro | Thr | Ser | Thr | Asn | Val | Lys | | |
| | | | 275 | | | | | 280 | | | | | 285 | | | | |
| Thr | Leu | Thr | Gly | Phe | Gly | Pro | Gly | Leu | Ala | Met | Glu | Thr | Ala | Leu | Arg | | |
| | | | 290 | | | | | 295 | | | | | 300 | | | | |
| Ser | Pro | Asp | Arg | Pro | Glu | Cys | Ile | Arg | Leu | Tyr | Ala | Pro | Pro | Phe | Ile | | |
| 305 | | | | | | 310 | | | | | 315 | | | | | 320 | |
| Leu | Ala | Pro | Val | Lys | Asp | Lys | Gln | Thr | Glu | Leu | Gly | Glu | Thr | Phe | Gly | | |
| | | | 325 | | | | | 330 | | | | | | 335 | | | |
| Glu | Ala | Gly | Gln | Lys | Tyr | Asn | Val | Leu | Phe | Val | Gly | Tyr | Cys | Leu | Ser | | |
| | | | 340 | | | | | 345 | | | | | 350 | | | | |
| His | Asp | Gln | Arg | Trp | Ile | Leu | Ala | Ser | Cys | Thr | Asp | Leu | Tyr | Gly | Glu | | |
| | | | 355 | | | | | 360 | | | | | 365 | | | | |
| Leu | Leu | Glu | Thr | Cys | Ile | Ile | Asn | Ile | Asp | Val | Pro | Asn | Arg | Ala | Arg | | |
| 370 | | | | | | 375 | | | | | 380 | | | | | | |
| Arg | Lys | Lys | Ser | Ser | Ala | Arg | Lys | Phe | Gly | Leu | Gln | Lys | Leu | Trp | Glu | | |
| 385 | | | | | | 390 | | | | | 395 | | | | | 400 | |
| Trp | Cys | Leu | Gly | Leu | Val | Gln | Met | Ser | Ser | Leu | Pro | Trp | Arg | Val | Val | | |
| | | | 405 | | | | | 410 | | | | | | 415 | | | |
| Ile | Gly | Arg | Leu | Gly | Arg | Ile | Gly | His | Gly | Glu | Leu | Lys | Asp | Trp | Ser | | |
| | | | 420 | | | | | 425 | | | | | 430 | | | | |
| Cys | Leu | Leu | Ser | Arg | Arg | Asn | Leu | Gln | Ser | Leu | Ser | Lys | Arg | Leu | Lys | | |
| | | | 435 | | | | | 440 | | | | | 445 | | | | |
| Asp | Met | Cys | Arg | Met | Cys | Gly | Ile | Ser | Ala | Ala | Asp | Ser | Pro | Ser | Ile | | |
| 450 | | | | | | 455 | | | | | 460 | | | | | | |
| Leu | Ser | Ala | Cys | Leu | Val | Ala | Met | Glu | Pro | Gln | Gly | Ser | Phe | Val | Ile | | |
| 465 | | | | | | 470 | | | | | 475 | | | | | 480 | |
| Met | Pro | Asp | Ser | Val | Ser | Thr | Gly | Ser | Val | Phe | Gly | Arg | Ser | Thr | Thr | | |
| | | | 485 | | | | | 490 | | | | | | 495 | | | |
| Leu | Asn | Met | Gln | Thr | Ser | Gln | Leu | Asn | Thr | Pro | Gln | Asp | Thr | Ser | Cys | | |
| | | | 500 | | | | | 505 | | | | | 510 | | | | |
| Thr | His | Ile | Leu | Val | Phe | Pro | Thr | Ser | Ala | Ser | Val | Gln | Val | Ala | Ser | | |

5584

| 515 | | | | | 520 | | | | | 525 | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Thr | Tyr | Thr | Thr | Glu | Asn | Leu | Asp | Leu | Ala | Phe | Asn | Pro | Asn | Asn |
| 530 | | | | | | 535 | | | | | 540 | | | | |
| Asp | Gly | Ala | Asp | Gly | Met | Gly | Ile | Phe | Asp | Leu | Leu | Asp | Thr | Gly | Asp |
| 545 | | | | | 550 | | | | | 555 | | | | | 560 |
| Asp | Leu | Asp | Pro | Asp | Ile | Ile | Asn | Ile | Leu | Pro | Ala | Ser | Pro | Thr | Gly |
| | | | | 565 | | | | | 570 | | | | | 575 | |
| Ser | Pro | Val | His | Ser | Pro | Gly | Ser | His | Tyr | Pro | His | Gly | Gly | Asp | Ala |
| | | | 580 | | | | | 585 | | | | | 590 | | |
| Gly | Lys | Gly | Gln | Ser | Thr | Asp | Arg | Leu | Leu | Ser | Thr | Glu | Pro | His | Glu |
| | | | 595 | | | | 600 | | | | | 605 | | | |
| Glu | Val | Pro | Asn | Ile | Leu | Gln | Gln | Pro | Leu | Ala | Leu | Gly | Tyr | Phe | Val |
| | | | 610 | | | | 615 | | | | | 620 | | | |
| Ser | Thr | Ala | Lys | Ala | Gly | Pro | Leu | Pro | Asp | Trp | Phe | Trp | Ser | Ala | Cys |
| 625 | | | | | 630 | | | | | 635 | | | | | 640 |
| Pro | Gln | Ala | Gln | Tyr | Gln | Cys | Pro | Leu | Phe | Leu | Lys | Ala | Ser | Leu | His |
| | | | | 645 | | | | | 650 | | | | | 655 | |
| Leu | His | Val | Pro | Ser | Val | Gln | Ser | Asp | Glu | Leu | Leu | His | Ser | Lys | His |
| | | | 660 | | | | | 665 | | | | | 670 | | |
| Ser | His | Pro | Leu | Asp | Ser | Asn | Gln | Thr | Ser | Asp | Val | Leu | Arg | Phe | Val |
| | | 675 | | | | | 680 | | | | | 685 | | | |
| Leu | Glu | Gln | Tyr | Asn | Ala | Leu | Ser | Trp | Leu | Thr | Cys | Asp | Pro | Ala | Thr |
| | | | 690 | | | | 695 | | | | 700 | | | | |
| Gln | Asp | Arg | Arg | Ser | Cys | Leu | Pro | Ile | His | Phe | Val | Val | Leu | Asn | Gln |
| 705 | | | | | 710 | | | | | 715 | | | | | 720 |
| Leu | Tyr | Asn | Phe | Ile | Met | Asn | Met | Leu | | | | | | | |
| | | | | 725 | | | | | | | | | | | |

<210> 6355

<211> 552

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

5585

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6355

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Leu | Thr | Arg | Arg | Glu | Gly | Thr | Gly | Pro | Arg | Pro | Arg | Ala | Ala | 1 | 5 | 10 | 15 |
| Gly | Ala | Gly | Ala | Arg | His | Val | His | Arg | Leu | Gly | Arg | Glu | Val | Ala | Ile | 20 | 25 | 30 | |
| Ala | Glu | Arg | Gln | Glu | Gly | Arg | Gly | Gly | Pro | Gly | Arg | Arg | Pro | Xaa | Val | 35 | 40 | 45 | |
| Gly | Arg | Arg | Trp | Gly | Arg | Pro | Ala | Arg | Leu | His | Leu | Arg | Ala | His | Gly | 50 | 55 | 60 | |
| Pro | Arg | Pro | Ser | Val | Arg | Thr | Gly | Leu | Pro | Ser | Val | Gly | Arg | Gln | Ala | 65 | 70 | 75 | 80 |
| Ala | Gly | Ala | Ala | Met | Gly | Arg | Gly | Trp | Gly | Phe | Leu | Phe | Gly | Leu | Leu | 85 | 90 | 95 | |
| Gly | Ala | Val | Trp | Leu | Leu | Ser | Ser | Gly | His | Gly | Glu | Glu | Gln | Pro | Pro | 100 | 105 | 110 | |
| Glu | Thr | Ala | Ala | Gln | Arg | Cys | Phe | Cys | Gln | Val | Ser | Gly | Tyr | Leu | Asp | 115 | 120 | 125 | |
| Asp | Cys | Thr | Cys | Asp | Val | Glu | Thr | Ile | Asp | Arg | Phe | Asn | Asn | Tyr | Arg | 130 | 135 | 140 | |
| Leu | Phe | Pro | Arg | Leu | Gln | Lys | Leu | Leu | Glu | Ser | Asp | Tyr | Phe | Arg | Tyr | 145 | 150 | 155 | 160 |
| Tyr | Lys | Val | Asn | Leu | Lys | Arg | Pro | Cys | Pro | Phe | Trp | Asn | Asp | Ile | Ser | 165 | 170 | 175 | |
| Gln | Cys | Gly | Arg | Arg | Asp | Cys | Ala | Val | Lys | Pro | Cys | Gln | Ser | Asp | Glu | 180 | 185 | 190 | |
| Val | Pro | Asp | Gly | Ile | Lys | Ser | Ala | Ser | Tyr | Lys | Tyr | Ser | Glu | Glu | Ala | 195 | 200 | 205 | |
| Asn | Asn | Leu | Ile | Glu | Glu | Cys | Glu | Gln | Ala | Glu | Arg | Leu | Gly | Ala | Val | 210 | 215 | 220 | |
| Asp | Glu | Ser | Leu | Ser | Glu | Glu | Thr | Gln | Lys | Ala | Val | Leu | Gln | Trp | Thr | 225 | 230 | 235 | 240 |
| Lys | His | Asp | Asp | Ser | Ser | Asp | Asn | Phe | Cys | Glu | Ala | Asp | Asp | Ile | Gln | 245 | 250 | 255 | |

5586

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Glu | Ala | Glu | Tyr | Val | Asp | Leu | Leu | Leu | Asn | Pro | Glu | Arg | Tyr | 260 | 265 | 270 |
| Thr | Gly | Tyr | Lys | Gly | Pro | Asp | Ala | Trp | Lys | Ile | Trp | Asn | Val | Ile | Tyr | 275 | 280 | 285 |
| Glu | Glu | Asn | Cys | Phe | Lys | Pro | Gln | Thr | Ile | Lys | Arg | Pro | Leu | Asn | Pro | 290 | 295 | 300 |
| Leu | Ala | Ser | Gly | Gln | Gly | Thr | Ser | Glu | Glu | Asn | Thr | Phe | Tyr | Ser | Trp | 305 | 310 | 315 |
| Leu | Glu | Gly | Leu | Cys | Val | Glu | Lys | Arg | Ala | Phe | Tyr | Arg | Leu | Ile | Ser | 325 | 330 | 335 |
| Gly | Leu | His | Ala | Ser | Ile | Asn | Val | His | Leu | Ser | Ala | Arg | Tyr | Leu | Leu | 340 | 345 | 350 |
| Gln | Glu | Thr | Trp | Leu | Glu | Lys | Lys | Trp | Gly | His | Asn | Ile | Thr | Glu | Phe | 355 | 360 | 365 |
| Gln | Gln | Arg | Phe | Asp | Gly | Ile | Leu | Thr | Glu | Gly | Glu | Gly | Pro | Arg | Arg | 370 | 375 | 380 |
| Leu | Lys | Asn | Leu | Tyr | Phe | Leu | Tyr | Leu | Ile | Glu | Leu | Arg | Ala | Leu | Ser | 385 | 390 | 395 |
| Lys | Val | Leu | Pro | Phe | Phe | Glu | Arg | Pro | Asp | Phe | Gln | Leu | Phe | Thr | Gly | 405 | 410 | 415 |
| Asn | Lys | Ile | Gln | Asp | Glu | Glu | Asn | Lys | Met | Leu | Leu | Leu | Glu | Ile | Leu | 420 | 425 | 430 |
| His | Glu | Ile | Lys | Ser | Phe | Pro | Leu | His | Phe | Asp | Glu | Asn | Ser | Phe | Phe | 435 | 440 | 445 |
| Ala | Gly | Asp | Lys | Lys | Glu | Ala | His | Lys | Leu | Lys | Glu | Asp | Phe | Arg | Leu | 450 | 455 | 460 |
| His | Phe | Arg | Asn | Ile | Ser | Arg | Ile | Met | Asp | Cys | Val | Gly | Cys | Phe | Lys | 465 | 470 | 475 |
| Cys | Arg | Leu | Trp | Gly | Lys | Leu | Gln | Thr | Gln | Gly | Leu | Gly | Thr | Ala | Leu | 485 | 490 | 495 |
| Lys | Ile | Leu | Phe | Ser | Glu | Lys | Leu | Ile | Ala | Asn | Met | Pro | Glu | Ser | Gly | 500 | 505 | 510 |
| Pro | Ser | Tyr | Glu | Phe | His | Leu | Thr | Arg | Gln | Glu | Ile | Val | Ser | Leu | Phe | 515 | 520 | 525 |

5587

Asn Ala Phe Gly Arg Ile Ser Thr Ser Val Lys Glu Leu Glu Asn Phe
 530 535 540

Arg Asn Leu Leu Gln Asn Ile His
 545 550

<210> 6356
 <211> 481
 <212> PRT
 <213> Homo sapiens

<400> 6356
 Ala Thr Asn Arg Val Val Ala Pro Thr Pro Gly Pro Gly Thr Pro Ala
 1 5 10 15
 Glu Arg His Ala Asp Gly Leu Ala Leu Ala Leu Glu Pro Ala Leu Ala
 20 25 30
 Ser Pro Ala Gly Ala Ala Asn Phe Leu Ala Met Val Asp Asn Leu Gln
 35 40 45
 Gly Asp Ser Gly Arg Gly Tyr Tyr Leu Glu Met Leu Ile Gly Thr Pro
 50 55 60
 Pro Gln Lys Leu Gln Ile Leu Val Asp Thr Gly Ser Ser Asn Phe Ala
 65 70 75 80
 Val Ala Gly Thr Pro His Ser Tyr Ile Asp Thr Tyr Phe Asp Thr Glu
 85 90 95
 Arg Ser Ser Thr Tyr Arg Ser Lys Gly Phe Asp Val Thr Val Lys Tyr
 100 105 110
 Thr Gln Gly Ser Trp Thr Gly Phe Val Gly Glu Asp Leu Val Thr Ile
 115 120 125
 Pro Lys Gly Phe Asn Thr Ser Phe Leu Val Asn Ile Ala Thr Ile Phe
 130 135 140
 Glu Ser Glu Asn Phe Phe Leu Pro Gly Ile Lys Trp Asn Gly Ile Leu
 145 150 155 160
 Gly Leu Ala Tyr Ala Thr Leu Ala Lys Pro Ser Ser Ser Leu Glu Thr
 165 170 175
 Phe Phe Asp Ser Leu Val Thr Gln Ala Asn Ile Pro Asn Val Phe Ser
 180 185 190
 Met Gln Met Cys Gly Ala Gly Leu Pro Val Ala Gly Ser Gly Thr Asn

5588

| | | |
|---|-----|-----|
| 195 | 200 | 205 |
| Gly Gly Ser Leu Val Leu Gly Gly Ile Glu Pro Ser Leu Tyr Lys Gly | | |
| 210 | 215 | 220 |
| Asp Ile Trp Tyr Thr Pro Ile Lys Glu Glu Trp Tyr Tyr Gln Ile Glu | | |
| 225 | 230 | 235 |
| Ile Leu Lys Leu Glu Ile Gly Gly Gln Ser Leu Asn Leu Asp Cys Arg | | |
| 245 | 250 | 255 |
| Glu Tyr Asn Ala Asp Lys Ala Ile Val Asp Ser Gly Thr Thr Leu Leu | | |
| 260 | 265 | 270 |
| Arg Leu Pro Gln Lys Val Phe Asp Ala Val Val Glu Ala Val Ala Arg | | |
| 275 | 280 | 285 |
| Ala Ser Leu Ile Pro Glu Phe Ser Asp Gly Phe Trp Thr Gly Ser Gln | | |
| 290 | 295 | 300 |
| Leu Ala Cys Trp Thr Asn Ser Glu Thr Pro Trp Ser Tyr Phe Pro Lys | | |
| 305 | 310 | 315 |
| Ile Ser Ile Tyr Leu Arg Asp Glu Asn Ser Ser Arg Ser Phe Arg Ile | | |
| 325 | 330 | 335 |
| Thr Ile Leu Pro Gln Leu Tyr Ile Gln Pro Met Met Gly Ala Gly Leu | | |
| 340 | 345 | 350 |
| Asn Tyr Glu Cys Tyr Arg Phe Gly Ile Ser Pro Ser Thr Asn Ala Leu | | |
| 355 | 360 | 365 |
| Val Ile Gly Ala Thr Val Met Glu Gly Phe Tyr Val Ile Phe Asp Arg | | |
| 370 | 375 | 380 |
| Ala Gln Lys Arg Val Gly Phe Ala Ala Ser Pro Cys Ala Glu Ile Ala | | |
| 385 | 390 | 395 |
| Gly Ala Ala Val Ser Glu Ile Ser Gly Pro Phe Ser Thr Glu Asp Val | | |
| 405 | 410 | 415 |
| Ala Ser Asn Cys Val Pro Ala Gln Ser Leu Ser Glu Pro Ile Leu Trp | | |
| 420 | 425 | 430 |
| Ile Val Ser Tyr Ala Leu Met Ser Val Cys Gly Ala Ile Leu Leu Val | | |
| 435 | 440 | 445 |
| Leu Ile Val Leu Leu Leu Leu Pro Phe Arg Cys Gln Arg Arg Pro Arg | | |
| 450 | 455 | 460 |
| Asp Pro Glu Val Val Asn Asp Glu Ser Ser Leu Val Arg His Arg Trp | | |

5589

465

470

475

480

Lys

<210> 6357

<211> 441

<212> PRT

<213> Homo sapiens

<400> 6357

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Ser | Trp | Cys | Arg | Ser | Ser | Pro | Gly | Arg | Asp | Gly | Ser | Pro | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Lys | Gly | Asp | Arg | Gly | Glu | Thr | Gly | Pro | Ala | Gly | Pro | Pro | Gly | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Ala | Pro | Gly | Ala | Pro | Gly | Pro | Val | Gly | Pro | Ala | Gly | Lys | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asp | Arg | Gly | Glu | Thr | Gly | Pro | Ala | Gly | Pro | Ala | Gly | Pro | Val | Gly |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Gly | Ala | Arg | Gly | Pro | Ala | Gly | Pro | Gln | Gly | Pro | Arg | Gly | Asp |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Gly | Glu | Thr | Gly | Glu | Gln | Gly | Asp | Arg | Gly | Ile | Lys | Gly | His | Arg |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Phe | Ser | Gly | Leu | Gln | Gly | Pro | Pro | Gly | Pro | Pro | Gly | Ser | Pro | Gly |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gln | Gly | Pro | Ser | Gly | Ala | Ser | Gly | Pro | Ala | Gly | Pro | Arg | Gly | Pro |
| | | 115 | | | | | | 120 | | | | | 125 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Ser | Ala | Gly | Ala | Pro | Gly | Lys | Asp | Gly | Leu | Asn | Gly | Leu | Pro |
| | 130 | | | | | | 135 | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Pro | Ile | Gly | Pro | Pro | Gly | Pro | Arg | Gly | Arg | Thr | Gly | Asp | Ala | Gly |
| 145 | | | | | | 150 | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Gly | Pro | Pro | Gly | Pro | Pro | Gly | Pro | Pro | Gly | Pro | Pro | Gly | Pro |
| | | | | | 165 | | | | 170 | | | | | 175 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Ala | Gly | Phe | Asp | Phe | Ser | Phe | Leu | Pro | Gln | Pro | Pro | Gln | Glu |
| | | | 180 | | | | | 185 | | | | | | 190 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ala | His | Asp | Gly | Gly | Arg | Tyr | Tyr | Arg | Ala | Asp | Asp | Ala | Asn | Val |
| | | 195 | | | | | | 200 | | | | 205 | | | |

5590

```

Val Arg Asp Arg Asp Leu Glu Val Asp Thr Thr Leu Lys Ser Leu Ser
 210                      215                      220

Gln Gln Ile Glu Asn Ile Arg Ser Pro Glu Gly Ser Arg Lys Asn Pro
 225                      230                      235                      240

Ala Arg Thr Cys Arg Asp Leu Lys Met Cys His Ser Asp Trp Lys Ser
                      245                      250                      255

Gly Glu Tyr Trp Ile Asp Pro Asn Gln Gly Cys Asn Leu Asp Ala Ile
                      260                      265                      270

Lys Val Phe Cys Asn Met Glu Thr Gly Glu Thr Cys Val Tyr Pro Thr
                      275                      280                      285

Gln Pro Ser Val Ala Gln Lys Asn Trp Tyr Ile Ser Lys Asn Pro Lys
 290                      295                      300

Asp Lys Arg His Val Trp Phe Gly Glu Ser Met Thr Asp Gly Phe Gln
 305                      310                      315                      320

Phe Glu Tyr Gly Gly Gln Gly Ser Asp Pro Ala Asp Val Ala Ile Gln
                      325                      330                      335

Leu Thr Phe Leu Arg Leu Met Ser Thr Glu Ala Ser Gln Asn Ile Thr
                      340                      345                      350

Tyr His Cys Lys Asn Ser Val Ala Tyr Met Asp Gln Gln Thr Gly Asn
                      355                      360                      365

Leu Lys Lys Ala Leu Leu Leu Gln Gly Ser Asn Glu Ile Glu Ile Arg
 370                      375                      380

Ala Glu Gly Asn Ser Arg Phe Thr Tyr Ser Val Thr Val Asp Gly Cys
 385                      390                      395                      400

Thr Ser His Thr Gly Ala Trp Gly Lys Thr Val Ile Glu Tyr Lys Thr
                      405                      410                      415

Thr Lys Thr Ser Arg Leu Pro Ile Ile Asp Val Ala Pro Leu Asp Val
                      420                      425                      430

Gly Ala Pro Asp Gln Glu Phe Gly Phe
 435                      440

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<210> 6358

<211> 458

<212> PRT

5591

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6358

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Ser | Pro | Leu | Thr | Ala | Pro | Leu | Thr | Thr | Thr | Asn | Pro | Tyr | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Thr | Arg | Leu | Val | Cys | Pro | Thr | Leu | Gly | Asp | Ala | Glu | Pro | Gln | Pro | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Pro | Arg | Pro | Lys | His | Ser | Phe | Asn | Trp | Tyr | Cys | Gly | Xaa | Arg | Gly | Phe |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Cys | Leu | Leu | Gln | Leu | Ala | Pro | Ala | Ala | Gly | Arg | Ser | Cys | Asp | Ser | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Glu | Ser | Arg | Arg | Arg | Val | Leu | Val | Leu | Thr | Arg | Arg | Ala | Met | Thr | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Ala | Arg | Pro | Ser | Val | Pro | Ala | Ala | Leu | Pro | Leu | Leu | Gly | Glu | Leu | Pro |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Arg | Leu | Leu | Leu | Leu | Val | Leu | Leu | Cys | Leu | Pro | Ala | Val | Trp | Gly | Asp |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Cys | Gly | Leu | Pro | Pro | Asp | Val | Pro | Asn | Ala | Gln | Pro | Ala | Leu | Glu | Gly |
| | | 115 | | | | | | 120 | | | | 125 | | | |
| Arg | Thr | Ser | Phe | Pro | Glu | Asp | Thr | Val | Ile | Thr | Tyr | Lys | Cys | Glu | Glu |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ser | Phe | Val | Lys | Ile | Pro | Gly | Glu | Lys | Asp | Ser | Val | Ile | Cys | Leu | Lys |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Gly | Ser | Gln | Trp | Ser | Asp | Ile | Glu | Glu | Phe | Cys | Asn | Arg | Ser | Cys | Glu |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Val | Pro | Thr | Arg | Leu | Asn | Ser | Ala | Ser | Leu | Lys | Gln | Pro | Tyr | Ile | Thr |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Gln | Asn | Tyr | Phe | Pro | Val | Gly | Thr | Val | Val | Glu | Tyr | Glu | Cys | Arg | Pro |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Gly | Tyr | Arg | Arg | Glu | Pro | Ser | Leu | Ser | Pro | Lys | Leu | Thr | Cys | Leu | Gln |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Asn | Leu | Lys | Trp | Ser | Thr | Ala | Val | Glu | Phe | Cys | Lys | Lys | Lys | Ser | Cys |

5592

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 225 | | | | | 230 | | | | | | 235 | | | | | 240 |
| Pro | Asn | Pro | Gly | Glu | Ile | Arg | Asn | Gly | Gln | Ile | Asp | Val | Pro | Gly | Gly | |
| | | | | 245 | | | | | 250 | | | | | 255 | | |
| Ile | Leu | Phe | Gly | Ala | Thr | Ile | Ser | Phe | Ser | Cys | Asn | Thr | Gly | Tyr | Lys | |
| | | | 260 | | | | | 265 | | | | | 270 | | | |
| Leu | Phe | Gly | Ser | Thr | Ser | Ser | Phe | Cys | Leu | Ile | Ser | Gly | Ser | Ser | Val | |
| | | 275 | | | | | 280 | | | | | 285 | | | | |
| Gln | Trp | Ser | Asp | Pro | Leu | Pro | Glu | Cys | Arg | Glu | Ile | Tyr | Cys | Pro | Ala | |
| | 290 | | | | | 295 | | | | | 300 | | | | | |
| Pro | Pro | Gln | Ile | Asp | Asn | Gly | Ile | Ile | Gln | Gly | Glu | Arg | Asp | His | Tyr | |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 | |
| Gly | Tyr | Arg | Gln | Ser | Val | Thr | Tyr | Ala | Cys | Asn | Lys | Gly | Phe | Thr | Met | |
| | | | | 325 | | | | | 330 | | | | | 335 | | |
| Ile | Gly | Glu | His | Ser | Ile | Tyr | Cys | Thr | Val | Asn | Asn | Asp | Glu | Gly | Glu | |
| | | | 340 | | | | | 345 | | | | | 350 | | | |
| Trp | Ser | Gly | Pro | Pro | Pro | Glu | Cys | Arg | Gly | Lys | Ser | Leu | Thr | Ser | Lys | |
| | | 355 | | | | | 360 | | | | | 365 | | | | |
| Val | Pro | Pro | Thr | Val | Gln | Lys | Pro | Thr | Thr | Val | Asn | Val | Pro | Thr | Thr | |
| | 370 | | | | | 375 | | | | | 380 | | | | | |
| Glu | Val | Ser | Pro | Thr | Ser | Gln | Lys | Thr | Thr | Thr | Lys | Thr | Thr | Thr | Pro | |
| 385 | | | | | | 390 | | | | 395 | | | | | 400 | |
| Asn | Ala | Gln | Ala | Thr | Arg | Ser | Thr | Pro | Val | Ser | Arg | Thr | Thr | Lys | His | |
| | | | | 405 | | | | | 410 | | | | | 415 | | |
| Phe | His | Glu | Thr | Thr | Pro | Asn | Lys | Gly | Ser | Gly | Thr | Thr | Ser | Gly | Thr | |
| | | | 420 | | | | | 425 | | | | | 430 | | | |
| Thr | Arg | Leu | Leu | Ser | Gly | His | Thr | Cys | Phe | Thr | Leu | Thr | Gly | Leu | Leu | |
| | | 435 | | | | | 440 | | | | | 445 | | | | |
| Gly | Thr | Leu | Val | Thr | Met | Gly | Leu | Leu | Thr | | | | | | | |
| | 450 | | | | | 455 | | | | | | | | | | |

<210> 6359

<211> 133

<212> PRT

<213> Homo sapiens

5593

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6359

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Asn | His | Ala | Asn | Val | Asn | Glu | Gly | Xaa | Val | Pro | Xaa | Xaa | Met | Leu |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Asn | Asp | Gln | Met | Ala | Leu | Gly | Ala | Met | Arg | Ala | Ile | Thr | Glu |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Leu | Arg | Val | Gly | Ala | Asp | Ile | Ser | Val | Val | Gly | Tyr | Asp | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Glu | Asp | Ser | Ser | Cys | Tyr | Ile | Pro | Pro | Leu | Thr | Thr | Ile | Lys | Gln |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Phe | Arg | Leu | Leu | Gly | Gln | Thr | Ser | Val | Asp | Arg | Leu | Leu | Gln | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gln | Gly | Gln | Ala | Val | Lys | Gly | Asn | Gln | Leu | Leu | Pro | Val | Ser | Leu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Lys | Arg | Lys | Thr | Thr | Leu | Ala | Pro | Asn | Thr | Gln | Thr | Ala | Ser | Pro |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ala | Leu | Ala | Asp | Ser | Leu | Met | Gln | Leu | Ala | Arg | Gln | Val | Ser | Arg |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Leu | Glu | Ser | Gly | Gln |
| | | | | 130 |

<210> 6360

<211> 332

<212> PRT

<213> Homo sapiens

<220>

5594

<221> SITE

<222> (199)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (255)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6360

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Glu | Gln | Lys | Leu | Glu | Leu | His | Arg | Gly | Gly | Gly | Arg | Ser | Arg | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ser | Pro | Gly | Leu | Gln | Glu | Phe | Gly | Thr | Ser | Arg | Ala | Pro | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Cys | Pro | Ser | Arg | Gln | Glu | Glu | Trp | Gly | Leu | Thr | Ser | Thr | Ser | Val |
| | | 35 | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Arg | Glu | Ala | Pro | Ala | Gly | Arg | Asp | Pro | Glu | Glu | Pro | Gly | Asp |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gly | Ala | Gly | Asp | Pro | Asn | Ser | Asp | Gln | Gly | Leu | Pro | Val | Leu | Met |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Gly | Thr | Glu | Asp | Leu | Lys | Gly | Pro | Gly | Gln | Arg | Cys | Glu | Asn |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Pro | Leu | Leu | Asp | Pro | Val | Gly | Pro | Glu | Pro | Leu | Gly | Pro | Glu | Ser |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ser | Gly | Lys | Gly | Asp | Met | Val | Glu | Met | Ala | Thr | Arg | Phe | Gly | Ser |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Gln | Leu | Asp | Leu | Glu | Lys | Gly | Lys | Glu | Ser | Leu | Leu | Glu | Lys |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Val | Ala | Glu | Glu | Glu | Glu | Asp | Glu | Glu | Glu | Val | Glu | Glu | Asp |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Pro | Ser | Ser | Cys | Ser | Glu | Asp | Asp | Tyr | Ser | Glu | Leu | Leu | Gln | Glu |
| | | | | 165 | | | | | 170 | | | | | 175 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Thr | Asp | Asn | Leu | Thr | Lys | Lys | Glu | Ile | Gln | Ile | Glu | Lys | Ile | His |
| | | | 180 | | | | | 185 | | | | | 190 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asp | Thr | Ser | Ser | Phe | Xaa | Glu | Glu | Leu | Pro | Gly | Glu | Lys | Asp | Leu |
| | | 195 | | | | | 200 | | | | | 205 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | His | Val | Val | Glu | Ile | Tyr | Asp | Phe | Glu | Pro | Ala | Leu | Lys | Thr | Glu |
| | 210 | | | | | 215 | | | | | 220 | | | | |

5595

Asp Leu Leu Ala Thr Phe Ser Glu Phe Gln Glu Lys Gly Phe Arg Ile
 225 230 235 240

Gln Trp Val Asp Asp Thr His Ala Leu Gly Ile Phe Pro Cys Xaa Ala
 245 250 255

Ser Ala Ala Glu Ala Leu Thr Arg Glu Phe Ser Val Leu Lys Ile Arg
 260 265 270

Pro Leu Thr Gln Gly Thr Lys Gln Ser Lys Leu Lys Ala Leu Gln Arg
 275 280 285

Pro Lys Leu Leu Arg Leu Val Lys Glu Arg Pro Gln Thr Asn Ala Thr
 290 295 300

Val Ala Arg Arg Leu Val Ala Arg Ala Leu Gly Leu Gln His Lys Lys
 305 310 315 320

Lys Glu Arg Pro Ala Val Arg Gly Pro Leu Pro Pro
 325 330

<210> 6361

<211> 258

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6361

Pro Gly Arg Gly Phe Gln Arg Phe Phe Lys Ala Val Glu Pro Lys Trp
 1 5 10 15

Asp Leu Lys Thr Asp Trp Gln Ile Ile Ser Glu Ile Ala Thr Arg Met
 20 25 30

Gly Tyr Pro Met His Tyr Asn Asn Thr Gln Glu Ile Trp Asp Glu Leu
 35 40 45

Arg His Leu Cys Pro Asp Phe Tyr Gly Ala Thr Tyr Glu Lys Met Gly
 50 55 60

Glu Leu Gly Phe Ile Gln Trp Pro Cys Arg Asp Thr Ser Asp Ala Asp
 65 70 75 80

Gln Gly Thr Ser Tyr Leu Phe Lys Glu Lys Phe Asp Thr Pro Asn Gly

5596

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 85 | | 90 | | 95 | | | | | | | | | |
| Leu | Ala | Gln | Phe | Thr | Cys | Asp | Trp | Val | Ala | Pro | Ile | Asp | Lys | Leu |
| | 100 | | | | | 105 | | | | | | 110 | | |
| Thr | Asp | Glu | Tyr | Pro | Met | Val | Leu | Ser | Thr | Val | Arg | Glu | Val | Gly |
| | 115 | | | | | 120 | | | | | 125 | | | |
| Tyr | Ser | Cys | Arg | Ser | Met | Thr | Gly | Asn | Cys | Ala | Xaa | Leu | Ala | Ala |
| | 130 | | | | | 135 | | | | | 140 | | | |
| Ala | Asp | Glu | Pro | Gly | Tyr | Ala | Gln | Ile | Asn | Thr | Glu | Asp | Ala | Lys |
| 145 | | | | | 150 | | | | | 155 | | | | 160 |
| Leu | Gly | Ile | Glu | Asp | Glu | Ala | Leu | Val | Trp | Val | His | Ser | Arg | Lys |
| | | | 165 | | | | | | 170 | | | | | 175 |
| Lys | Ile | Ile | Thr | Arg | Ala | Gln | Val | Ser | Asp | Arg | Pro | Asn | Lys | Gly |
| | 180 | | | | | | | 185 | | | | | 190 | |
| Ile | Tyr | Met | Thr | Tyr | Gln | Trp | Trp | Ile | Gly | Ala | Cys | Asn | Glu | Leu |
| | 195 | | | | | 200 | | | | | | 205 | | |
| Thr | Glu | Asn | Leu | Ser | Pro | Ile | Thr | Lys | Thr | Pro | Glu | Tyr | Lys | Tyr |
| | 210 | | | | | 215 | | | | | 220 | | | |
| Ala | Val | Arg | Val | Glu | Pro | Ile | Ala | Asp | Gln | Arg | Ala | Ala | Glu | Gln |
| 225 | | | | | 230 | | | | 235 | | | | | 240 |
| Val | Ile | Asp | Glu | Tyr | Asn | Lys | Leu | Lys | Thr | Arg | Leu | Arg | Glu | Ala |
| | | | 245 | | | | | | 250 | | | | 255 | |
| Leu | Ala | | | | | | | | | | | | | |

<210> 6362

<211> 38

<212> PRT

<213> Homo sapiens

<400> 6362

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Cys | Ile | Phe | Leu | Val | Glu | Thr | Gly | Phe | Leu | His | Val | Gly | Gln | Gly |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Glu | Leu | Leu | Thr | Ser | Ser | Asp | Leu | Pro | Ala | Ser | Ala | Ser | Gln |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Val | Leu | Gly | Leu | Gln | Ala |
| | | | | | 35 |

5597

<210> 6363

<211> 232

<212> PRT

<213> Homo sapiens

<400> 6363

```

Leu Pro Val Pro Gly Arg Gly Arg Val Phe Phe Glu Asp Leu Gly Leu
 1             5             10             15

Arg Asp Thr Val Arg Met Ala Val Val Pro Leu Leu Leu Leu Gly Gly
          20             25             30

Leu Trp Ser Ala Val Gly Ala Ser Ser Leu Gly Val Val Thr Cys Gly
          35             40             45

Ser Val Val Lys Leu Leu Asn Thr Arg His Asn Val Arg Leu His Ser
          50             55             60

His Asp Val Arg Tyr Gly Ser Gly Ser Gly Gln Gln Ser Val Thr Gly
          65             70             75             80

Val Thr Ser Val Asp Asp Ser Asn Ser Tyr Trp Arg Ile Arg Gly Lys
          85             90             95

Ser Ala Thr Val Cys Glu Arg Gly Thr Pro Ile Lys Cys Gly Gln Pro
          100            105            110

Ile Arg Leu Thr His Val Asn Thr Gly Arg Asn Leu His Ser His His
          115            120            125

Phe Thr Ser Pro Leu Ser Gly Asn Gln Glu Val Ser Ala Phe Gly Glu
          130            135            140

Glu Gly Glu Gly Asp Tyr Leu Asp Asp Trp Thr Val Leu Cys Asn Gly
          145            150            155            160

Pro Tyr Trp Val Arg Asp Gly Glu Val Arg Phe Lys His Ser Ser Thr
          165            170            175

Glu Val Leu Leu Ser Val Thr Gly Glu Gln Tyr Gly Arg Pro Ile Ser
          180            185            190

Gly Gln Lys Glu Val His Gly Met Ala Gln Pro Ser Gln Asn Asn Tyr
          195            200            205

Trp Lys Ala Met Glu Gly Ile Phe Met Lys Pro Ser Glu Leu Leu Lys
          210            215            220

```

5598

Ala Glu Ala His His Ala Glu Leu
 225 230

<210> 6364

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6364

Lys Asp Lys Pro Gln Thr Arg Arg Lys Tyr Leu Ser Asn Thr Ser Tyr
 1 5 10 15

Lys Gly Leu Val Ser Lys Ile Tyr Gln Glu Leu Leu Xaa His Asn Lys
 20 25 30

Glu Lys Ile Leu Lys Xaa Ser Lys Lys Ser Xaa Xaa Met Tyr His Gln
 35 40 45

Arg

<210> 6365

<211> 74

<212> PRT

<213> Homo sapiens

<400> 6365

5599

Glu Phe Gly Thr Ser Gly Tyr Ile Phe Leu His Leu Gln Leu Pro His
 1 5 10 15

Gly Val Leu Ile Arg Leu Lys Ser Asn Asn Gly Tyr Lys Asn Thr Leu
 20 25 30

Lys Ser Arg His Gly Phe Leu Leu Thr Ala Met Arg Glu Phe Leu Glu
 35 40 45

Leu Asp Leu Asp Gly Pro Lys Gln Leu Glu Asn Trp Thr Lys Asp Ile
 50 55 60

Lys Lys Lys Leu Phe Ser Thr Ile Gly Gln
 65 70

<210> 6366

<211> 129

<212> PRT

<213> Homo sapiens

<400> 6366

Gly Arg Gly Lys Ser Gly Pro Gly Leu Pro Gln Ser Cys Leu Leu Cys
 1 5 10 15

Ala Val Asn Gly Phe Asn Thr Leu Gly Glu Asn Ile Ala Asp Asn Gly
 20 25 30

Gly Val Arg Gln Ala Tyr Lys Ala Tyr Leu Lys Trp Met Ala Glu Gly
 35 40 45

Gly Lys Asp Gln Gln Leu Pro Gly Leu Asp Leu Thr His Glu Gln Leu
 50 55 60

Phe Phe Ile Asn Tyr Ala Gln Val Trp Cys Gly Ser Tyr Arg Pro Glu
 65 70 75 80

Phe Ala Ile Gln Ser Ile Lys Thr Asp Val His Ser Pro Leu Lys Tyr
 85 90 95

Arg Val Leu Gly Ser Leu Gln Asn Leu Ala Ala Phe Ala Asp Thr Phe
 100 105 110

His Cys Ala Arg Gly Thr Pro Met His Pro Lys Glu Arg Cys Arg Val
 115 120 125

Trp

5600

<210> 6367

<211> 469

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6367

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Ala | Val | Gly | Arg | Val | Arg | Val | Thr | Ala | Glu | Gly | Arg | Xaa | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Leu | Gln | Thr | Thr | Lys | Gly | Leu | Arg | Leu | Leu | Phe | Asp | Gly | Asp | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Leu | Leu | Met | Ser | Ile | Pro | Ser | Pro | Phe | Arg | Gly | Arg | Leu | Cys | Gly |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Cys | Gly | Asn | Phe | Asn | Gly | Asn | Trp | Ser | Asp | Asp | Phe | Val | Leu | Pro |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Gly | Ser | Ala | Ala | Ser | Ser | Val | Glu | Thr | Phe | Gly | Ala | Ala | Trp | Arg |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Pro | Gly | Ser | Ser | Lys | Gly | Cys | Gly | Glu | Gly | Cys | Gly | Pro | Gln | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Pro | Val | Cys | Leu | Ala | Glu | Glu | Thr | Ala | Pro | Tyr | Glu | Ser | Asn | Glu |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Cys | Gly | Gln | Leu | Arg | Asn | Pro | Gln | Gly | Pro | Phe | Ala | Thr | Cys | Gln |
| | | | 115 | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Leu | Ser | Pro | Ser | Glu | Tyr | Phe | Arg | Gln | Cys | Val | Tyr | Asp | Leu |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Ala | Gln | Lys | Gly | Asp | Lys | Ala | Phe | Leu | Cys | Arg | Ser | Leu | Ala | Ala |
| 145 | | | | | 150 | | | | | 155 | | | | 160 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Thr | Ala | Ala | Cys | Gln | Ala | Ala | Gly | Val | Ala | Val | Lys | Pro | Trp | Arg |
| | | | | 165 | | | | 170 | | | | | | 175 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Asp | Ser | Phe | Cys | Pro | Leu | His | Cys | Pro | Ala | His | Ser | His | Tyr | Ser |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5601

| | | |
|---|-----|-----|
| 180 | 185 | 190 |
| Ile Cys Thr Arg Thr Cys Gln Gly Ser Cys Ala Ala Leu Ser Gly Leu | | |
| 195 | 200 | 205 |
| Thr Gly Cys Thr Thr Arg Cys Phe Glu Gly Cys Glu Cys Asp Asp Arg | | |
| 210 | 215 | 220 |
| Phe Leu Leu Ser Gln Gly Val Cys Ile Pro Val Gln Asp Cys Gly Cys | | |
| 225 | 230 | 235 |
| Thr His Asn Gly Arg Tyr Leu Pro Val Asn Ser Ser Leu Leu Thr Ser | | |
| 245 | 250 | 255 |
| Asp Cys Ser Glu Arg Cys Ser Cys Ser Ser Ser Ser Gly Leu Thr Cys | | |
| 260 | 265 | 270 |
| Gln Ala Ala Gly Cys Pro Pro Gly Arg Val Cys Glu Val Lys Ala Glu | | |
| 275 | 280 | 285 |
| Ala Arg Asn Cys Trp Ala Thr Arg Gly Leu Cys Val Leu Ser Val Gly | | |
| 290 | 295 | 300 |
| Ala Asn Leu Thr Thr Phe Asp Gly Ala Arg Gly Ala Thr Thr Ser Pro | | |
| 305 | 310 | 315 |
| Gly Val Tyr Glu Leu Ser Ser Arg Cys Pro Gly Leu Gln Asn Thr Ile | | |
| 325 | 330 | 335 |
| Pro Trp Tyr Arg Val Val Ala Glu Val Gln Ile Cys His Gly Lys Thr | | |
| 340 | 345 | 350 |
| Glu Ala Val Gly Gln Val His Ile Phe Phe Gln Asp Gly Met Val Thr | | |
| 355 | 360 | 365 |
| Leu Thr Pro Asn Lys Gly Val Trp Val Asn Gly Leu Arg Val Asp Leu | | |
| 370 | 375 | 380 |
| Pro Ala Glu Lys Leu Ala Ser Val Ser Val Ser Arg Thr Pro Asp Gly | | |
| 385 | 390 | 395 |
| Ser Leu Leu Val Arg Gln Lys Ala Gly Val Gln Val Trp Leu Gly Ala | | |
| 405 | 410 | 415 |
| Asn Gly Lys Val Ala Val Ile Val Ser Asn Asp His Ala Gly Lys Leu | | |
| 420 | 425 | 430 |
| Cys Gly Ala Cys Gly Asn Phe Asp Gly Asp Gln Thr Asn Asp Trp His | | |
| 435 | 440 | 445 |
| Asp Ser Gln Glu Lys Pro Ala Met Glu Lys Trp Arg Ala Gln Asp Phe | | |

5602

450

455

460

Ser Pro Cys Tyr Gly
465

<210> 6368

<211> 705

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (244)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (337)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6368

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr
1 5 10 15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Asn Cys Asn Leu
20 25 30

Glu Asp Leu Asp Asn Trp Thr Ala Leu Ile Ser Ala Ser Lys Glu Gly
35 40 45

His Val His Ile Val Glu Glu Leu Leu Lys Cys Gly Val Asn Leu Glu
50 55 60

His Arg Asp Met Gly Gly Trp Thr Ala Leu Met Trp Ala Cys Tyr Lys
65 70 75 80

Gly Arg Thr Asp Val Val Glu Leu Leu Leu Ser His Gly Ala Asn Pro
85 90 95

Ser Val Thr Gly Leu Tyr Ser Val Tyr Pro Ile Ile Trp Ala Ala Gly
100 105 110

Arg Gly His Ala Asp Ile Val His Leu Leu Leu Gln Asn Gly Ala Lys
115 120 125

Val Asn Cys Ser Asp Lys Tyr Gly Thr Thr Pro Leu Val Trp Ala Ala
130 135 140

Arg Lys Gly His Leu Glu Cys Val Lys His Leu Leu Ala Met Gly Ala

5603

| | | | | | | |
|---|-----|-----|-----|-----|-----|-----|
| 145 | | 150 | | 155 | | 160 |
| Asp Val Asp Gln Glu Gly Ala Asn Ser Met Thr Ala Leu Ile Val Ala | | | | | | |
| | 165 | | 170 | | 175 | |
| Val Lys Gly Gly Tyr Thr Gln Ser Val Lys Glu Ile Leu Lys Arg Asn | | | | | | |
| | 180 | | 185 | | 190 | |
| Pro Asn Val Asn Leu Thr Asp Lys Asp Gly Asn Thr Ala Leu Met Ile | | | | | | |
| | 195 | | 200 | | 205 | |
| Ala Ser Lys Glu Gly His Thr Glu Ile Val Gln Asp Leu Leu Asp Ala | | | | | | |
| | 210 | | 215 | | 220 | |
| Gly Thr Tyr Val Asn Ile Pro Asp Arg Ser Gly Asp Thr Val Leu Ile | | | | | | |
| 225 | | 230 | | 235 | | 240 |
| Gly Ala Val Xaa Gly Gly His Val Glu Ile Val Arg Ala Leu Leu Gln | | | | | | |
| | 245 | | 250 | | 255 | |
| Lys Tyr Ala Asp Ile Asp Ile Arg Gly Gln Asp Asn Lys Thr Ala Leu | | | | | | |
| | 260 | | 265 | | 270 | |
| Tyr Trp Ala Val Glu Lys Gly Asn Ala Thr Met Val Arg Asp Ile Leu | | | | | | |
| | 275 | | 280 | | 285 | |
| Gln Cys Asn Pro Asp Thr Glu Ile Cys Thr Lys Asp Gly Glu Thr Pro | | | | | | |
| | 290 | | 295 | | 300 | |
| Leu Ile Lys Ala Thr Lys Met Arg Asn Ile Glu Val Val Glu Leu Leu | | | | | | |
| 305 | | 310 | | 315 | | 320 |
| Leu Asp Lys Gly Ala Lys Val Ser Ala Val Asp Lys Lys Gly Asp Thr | | | | | | |
| | 325 | | 330 | | 335 | |
| Xaa Leu His Ile Ala Ile Arg Gly Arg Ser Arg Lys Leu Ala Glu Leu | | | | | | |
| | 340 | | 345 | | 350 | |
| Leu Leu Arg Asn Pro Lys Asp Gly Arg Leu Leu Tyr Arg Pro Asn Lys | | | | | | |
| | 355 | | 360 | | 365 | |
| Ala Gly Glu Thr Pro Tyr Asn Ile Asp Cys Ser His Gln Lys Ser Ile | | | | | | |
| | 370 | | 375 | | 380 | |
| Leu Thr Gln Ile Phe Gly Ala Arg His Leu Ser Pro Thr Glu Thr Asp | | | | | | |
| 385 | | 390 | | 395 | | 400 |
| Gly Asp Met Leu Gly Tyr Asp Leu Tyr Ser Ser Ala Leu Ala Asp Ile | | | | | | |
| | 405 | | 410 | | 415 | |
| Leu Ser Glu Pro Thr Met Gln Pro Pro Ile Cys Val Gly Leu Tyr Ala | | | | | | |

5604

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| | 420 | | 425 | | 430 | | | | | | | | | | | | | | |
| Gln | Trp | Gly | Ser | Gly | Lys | Ser | Phe | Leu | Leu | Lys | Lys | Leu | Glu | Asp | Glu | | | | |
| | 435 | | | | | | 440 | | | | | 445 | | | | | | | |
| Met | Lys | Thr | Phe | Ala | Gly | Gln | Gln | Ile | Glu | Pro | Leu | Phe | Gln | Phe | Ser | | | | |
| | 450 | | | | | 455 | | | | | 460 | | | | | | | | |
| Trp | Leu | Ile | Val | Phe | Leu | Thr | Leu | Leu | Leu | Cys | Gly | Gly | Leu | Gly | Leu | | | | |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 | | | | |
| Leu | Phe | Ala | Phe | Thr | Val | His | Pro | Asn | Leu | Gly | Ile | Ala | Val | Ser | Leu | | | | |
| | | | | 485 | | | | | 490 | | | | | 495 | | | | | |
| Ser | Phe | Leu | Ala | Leu | Leu | Tyr | Ile | Phe | Phe | Ile | Val | Ile | Tyr | Phe | Gly | | | | |
| | | | 500 | | | | | 505 | | | | | 510 | | | | | | |
| Gly | Arg | Arg | Glu | Gly | Glu | Ser | Trp | Asn | Trp | Ala | Trp | Val | Leu | Ser | Thr | | | | |
| | 515 | | | | | | 520 | | | | | 525 | | | | | | | |
| Arg | Leu | Ala | Arg | His | Ile | Gly | Tyr | Leu | Glu | Leu | Leu | Leu | Lys | Leu | Met | | | | |
| | 530 | | | | | 535 | | | | | 540 | | | | | | | | |
| Phe | Val | Asn | Pro | Pro | Glu | Leu | Pro | Glu | Gln | Thr | Thr | Lys | Ala | Leu | Pro | | | | |
| 545 | | | | | 550 | | | | 555 | | | | | | 560 | | | | |
| Val | Arg | Phe | Leu | Phe | Thr | Asp | Tyr | Asn | Arg | Leu | Ser | Ser | Val | Gly | Gly | | | | |
| | | | | 565 | | | | 570 | | | | | | 575 | | | | | |
| Glu | Thr | Ser | Leu | Ala | Glu | Met | Ile | Ala | Thr | Leu | Ser | Asp | Ala | Cys | Glu | | | | |
| | | | 580 | | | | | 585 | | | | | 590 | | | | | | |
| Arg | Glu | Phe | Gly | Phe | Leu | Ala | Thr | Arg | Leu | Phe | Arg | Val | Phe | Lys | Thr | | | | |
| | 595 | | | | | | 600 | | | | | 605 | | | | | | | |
| Glu | Asp | Thr | Gln | Gly | Lys | Lys | Lys | Lys | Lys | Asn | Ser | Arg | Gly | Gly | Pro | | | | |
| | 610 | | | | 615 | | | | | 620 | | | | | | | | | |
| Val | Pro | Asn | Ser | Pro | Tyr | Ser | Glu | Ser | Tyr | Tyr | Asn | Ser | Leu | Ala | Val | | | | |
| 625 | | | | | 630 | | | | 635 | | | | | | 640 | | | | |
| Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Pro | Gly | Val | Thr | Gln | Leu | Asn | | | | |
| | | | | 645 | | | | 650 | | | | | | 655 | | | | | |
| Arg | Leu | Ala | Ala | His | Pro | Pro | Phe | Ala | Ser | Trp | Arg | Asn | Ser | Glu | Glu | | | | |
| | | | 660 | | | | | 665 | | | | | 670 | | | | | | |
| Ala | Arg | Thr | Asp | Arg | Pro | Ser | Gln | Gln | Leu | Arg | Ser | Leu | Asn | Gly | Glu | | | | |
| | 675 | | | | | | 680 | | | | | 685 | | | | | | | |
| Trp | Gln | Ile | Val | Ser | Val | Asn | Ile | Leu | Leu | Lys | Phe | Ala | Leu | Asn | Phe | | | | |

5605

690

695

700

Cys

705

<210> 6369

<211> 294

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (242)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (249)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (259)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (272)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (282)

<223> Xaa equals any of the naturally occurring L-amino acids

5606

<220>

<221> SITE

<222> (292)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6369

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Leu | Val | Arg | Leu | Gln | Val | Pro | Val | Arg | Asn | Ser | Arg | Val | Asp |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |
| Pro | Arg | Val | Arg | Pro | Ser | Ser | Trp | Phe | Ala | His | Gly | His | Pro | Leu | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Thr | Arg | Leu | Pro | Pro | Ser | Ala | Leu | Gln | Val | Leu | Ser | Ala | Gln | Gly | Thr |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Gln | Ala | Leu | Gln | Ala | Ala | Gln | Arg | Ser | Ala | Gln | Trp | Ala | Ile | Asn | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Val | Ala | Met | Glu | Ile | Gln | His | Arg | Ser | His | Glu | Cys | Arg | Gly | Ser | Gly |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Arg | Pro | Arg | Pro | Gln | Ala | Leu | Leu | Gln | Asp | Pro | Pro | Glu | Pro | Gly | Pro |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Cys | Gly | Glu | Arg | Arg | Pro | Ser | Thr | Ala | Asn | Val | Thr | Arg | Ala | His | Gly |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Arg | Ile | Val | Gly | Gly | Ser | Ala | Ala | Pro | Pro | Gly | Ala | Trp | Pro | Trp | Leu |
| | 115 | | | | | | 120 | | | | | 125 | | | |
| Val | Arg | Leu | Gln | Leu | Gly | Gly | Gln | Pro | Leu | Cys | Gly | Gly | Val | Leu | Val |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Ala | Ala | Ser | Trp | Val | Leu | Thr | Ala | Ala | His | Cys | Phe | Val | Gly | Ala | Pro |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Asn | Glu | Leu | Leu | Trp | Thr | Val | Thr | Leu | Ala | Glu | Gly | Ser | Arg | Gly | Glu |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Gln | Ala | Glu | Glu | Val | Pro | Val | Asn | Arg | Ile | Leu | Pro | His | Pro | Lys | Phe |
| | | 180 | | | | | | 185 | | | | | 190 | | |
| Asp | Pro | Arg | Thr | Phe | His | Asn | Asp | Leu | Ala | Leu | Val | Gln | Leu | Trp | Thr |
| | | 195 | | | | | 200 | | | | | | 205 | | |
| Pro | Val | Thr | Arg | Gly | Asp | Arg | Arg | Ala | Pro | Cys | Ala | Cys | Pro | Gly | Ala |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Pro | Gly | Ala | Pro | Cys | Arg | Asn | Arg | Leu | Xaa | His | Arg | Gly | Leu | Gly | Arg |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |

5607

Pro Xaa Arg Arg Arg Ala Xaa Gly Xaa Ser Xaa Glu Arg Gly Pro Cys
 245 250 255

Ser Pro Xaa Gln His Arg His Leu Pro Lys Ser Pro Gly Ala Arg Xaa
 260 265 270

Ala Pro Gln His His Ala Leu Arg Arg Xaa Leu Ala Ala Gly Val Asp
 275 280 285

Ser Cys Gln Xaa Asp Ser
 290

<210> 6370

<211> 294

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (239)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6370

Leu Ser Phe Gly Pro Ser Gly Arg Thr Leu Pro Thr Thr Thr Arg Arg
 1 5 10 15

Met Thr Leu Lys Thr Pro Trp Arg Ser Leu Gly Gly Ser Trp Cys Thr
 20 25 30

Ala Thr Ser Ser Gly Pro Pro Gln Tyr Pro Met Ile Leu Ser Ser Leu
 35 40 45

Leu Gly Ser Gly Ile Gln Leu Phe Cys Met Ile Leu Ile Val Ile Phe
 50 55 60

Val Ala Met Leu Gly Met Leu Ser Pro Ser Ser Arg Gly Ala Leu Met
 65 70 75 80

Thr Thr Ala Cys Phe Leu Phe Met Phe Met Gly Val Phe Gly Gly Phe
 85 90 95

Ser Ala Gly Arg Leu Tyr Arg Thr Leu Lys Gly His Arg Trp Lys Lys
 100 105 110

Gly Ala Phe Cys Thr Ala Thr Leu Tyr Pro Gly Val Val Phe Gly Ile
 115 120 125

Cys Phe Val Leu Asn Cys Phe Ile Trp Gly Lys His Ser Ser Gly Ala

5608

130 135 140
 Val Pro Phe Pro Thr Met Val Ala Leu Leu Cys Met Trp Phe Gly Ile
 145 150 155 160
 Ser Leu Pro Leu Val Tyr Leu Gly Tyr Tyr Phe Gly Phe Arg Lys Gln
 165 170 175
 Pro Tyr Asp Asn Pro Val Arg Thr Asn Gln Ile Pro Arg Gln Ile Pro
 180 185 190
 Glu Gln Arg Trp Tyr Met Asn Arg Phe Val Gly Ile Leu Met Ala Gly
 195 200 205
 Ile Leu Pro Phe Gly Ala Met Phe Ile Glu Leu Phe Phe Ile Phe Ser
 210 215 220
 Ala Ile Trp Glu Asn Gln Phe Tyr Tyr Leu Phe Gly Phe Leu Xaa Leu
 225 230 235 240
 Val Phe Ile Ile Leu Val Val Ser Cys Ser Gln Ile Ser Ile Val Met
 245 250 255
 Val Tyr Phe Gln Leu Cys Ala Glu Asp Tyr Arg Trp Trp Trp Arg Asn
 260 265 270
 Phe Leu Val Ser Gly Gly Ser Ala Phe Tyr Val Leu Val Tyr Ala Ile
 275 280 285
 Phe Tyr Phe Val Asn Lys
 290

<210> 6371

<211> 944

<212> PRT

<213> Homo sapiens

<400> 6371

Ser Lys Lys Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr Met
 1 5 10 15
 Ser Phe Leu Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro
 20 25 30
 Ser Trp Cys Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr
 35 40 45
 Pro Phe Pro Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val
 50 55 60

5609

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Tyr | Asp | Leu | Leu | Ile | His | Ala | Asn | Leu | Thr | Thr | Leu | Thr | Phe | Trp | 65 | 70 | 75 | 80 |
| Gly | Thr | Thr | Lys | Val | Glu | Ile | Thr | Ala | Ser | Gln | Pro | Thr | Ser | Thr | Ile | 85 | 90 | 95 | |
| Ile | Leu | His | Ser | His | His | Leu | Gln | Ile | Ser | Arg | Ala | Thr | Leu | Arg | Lys | 100 | 105 | 110 | |
| Gly | Ala | Gly | Glu | Arg | Leu | Ser | Glu | Glu | Pro | Leu | Gln | Val | Leu | Glu | His | 115 | 120 | 125 | |
| Pro | Pro | Gln | Glu | Gln | Ile | Ala | Leu | Leu | Ala | Pro | Glu | Pro | Leu | Leu | Val | 130 | 135 | 140 | |
| Gly | Leu | Pro | Tyr | Thr | Val | Val | Ile | His | Tyr | Ala | Gly | Asn | Leu | Ser | Glu | 145 | 150 | 155 | 160 |
| Thr | Phe | His | Gly | Phe | Tyr | Lys | Ser | Thr | Tyr | Arg | Thr | Lys | Glu | Gly | Glu | 165 | 170 | 175 | |
| Leu | Arg | Ile | Leu | Ala | Ser | Thr | Gln | Phe | Glu | Pro | Thr | Ala | Ala | Arg | Met | 180 | 185 | 190 | |
| Ala | Phe | Pro | Cys | Phe | Asp | Glu | Pro | Ala | Phe | Lys | Ala | Ser | Phe | Ser | Ile | 195 | 200 | 205 | |
| Lys | Ile | Arg | Arg | Glu | Pro | Arg | His | Leu | Ala | Ile | Ser | Asn | Met | Pro | Leu | 210 | 215 | 220 | |
| Val | Lys | Ser | Val | Thr | Val | Ala | Glu | Gly | Leu | Ile | Glu | Asp | His | Phe | Asp | 225 | 230 | 235 | 240 |
| Val | Thr | Val | Lys | Met | Ser | Thr | Tyr | Leu | Val | Ala | Phe | Ile | Ile | Ser | Asp | 245 | 250 | 255 | |
| Phe | Glu | Ser | Val | Ser | Lys | Ile | Thr | Lys | Ser | Gly | Val | Lys | Val | Ser | Val | 260 | 265 | 270 | |
| Tyr | Ala | Val | Pro | Asp | Lys | Met | Asn | Gln | Ala | Asp | Tyr | Ala | Leu | Asp | Ala | 275 | 280 | 285 | |
| Ala | Val | Thr | Leu | Leu | Glu | Phe | Tyr | Glu | Asp | Tyr | Phe | Ser | Ile | Pro | Tyr | 290 | 295 | 300 | |
| Pro | Leu | Pro | Lys | Gln | Asp | Leu | Ala | Ala | Ile | Pro | Asp | Phe | Gln | Ser | Gly | 305 | 310 | 315 | 320 |
| Ala | Met | Glu | Asn | Trp | Gly | Leu | Thr | Thr | Tyr | Arg | Glu | Ser | Ala | Leu | Leu | 325 | 330 | 335 | |

5610

Phe Asp Ala Glu Lys Ser Ser Ala Ser Ser Lys Leu Gly Ile Thr Met
 340 345 350
 Thr Val Ala His Glu Leu Ala His Gln Trp Phe Gly Asn Leu Val Thr
 355 360 365
 Met Glu Trp Trp Asn Asp Leu Trp Leu Asn Glu Gly Phe Ala Lys Phe
 370 375 380
 Met Glu Phe Val Ser Val Ser Val Thr His Pro Glu Leu Lys Val Gly
 385 390 395 400
 Asp Tyr Phe Phe Gly Lys Cys Phe Asp Ala Met Glu Val Asp Ala Leu
 405 410 415
 Asn Ser Ser His Pro Val Ser Thr Pro Val Glu Asn Pro Ala Gln Ile
 420 425 430
 Arg Glu Met Phe Asp Asp Val Ser Tyr Asp Lys Gly Ala Cys Ile Leu
 435 440 445
 Asn Met Leu Arg Glu Tyr Leu Ser Ala Asp Ala Phe Lys Ser Gly Ile
 450 455 460
 Val Gln Tyr Leu Gln Lys His Ser Tyr Lys Asn Thr Lys Asn Glu Asp
 465 470 475 480
 Leu Trp Asp Ser Met Ala Ser Ile Cys Pro Thr Asp Gly Val Lys Gly
 485 490 495
 Met Asp Gly Phe Cys Ser Arg Ser Gln His Ser Ser Ser Ser Ser His
 500 505 510
 Trp His Gln Glu Gly Val Asp Val Lys Thr Met Met Asn Thr Trp Thr
 515 520 525
 Leu Gln Arg Gly Phe Pro Leu Ile Thr Ile Thr Val Arg Gly Arg Asn
 530 535 540
 Val His Met Lys Gln Glu His Tyr Met Lys Gly Ser Asp Gly Ala Pro
 545 550 555 560
 Asp Thr Gly Tyr Leu Trp His Val Pro Leu Thr Phe Ile Thr Ser Lys
 565 570 575
 Ser Asp Met Val His Arg Phe Leu Leu Lys Thr Lys Thr Asp Val Leu
 580 585 590
 Ile Leu Pro Glu Glu Val Glu Trp Ile Lys Phe Asn Val Gly Met Asn
 595 600 605

5611

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Tyr | Tyr | Ile | Val | His | Tyr | Glu | Asp | Asp | Gly | Trp | Asp | Ser | Leu | Thr | 610 | 615 | 620 | |
| Gly | Leu | Leu | Lys | Gly | Thr | His | Thr | Ala | Val | Ser | Ser | Asn | Asp | Arg | Ala | 625 | 630 | 635 | 640 |
| Ser | Leu | Ile | Asn | Asn | Ala | Phe | Gln | Leu | Val | Ser | Ile | Gly | Lys | Leu | Ser | 645 | 650 | 655 | |
| Ile | Glu | Lys | Ala | Leu | Asp | Leu | Ser | Leu | Tyr | Leu | Lys | His | Glu | Thr | Glu | 660 | 665 | 670 | |
| Ile | Met | Pro | Val | Phe | Gln | Gly | Leu | Asn | Glu | Leu | Ile | Pro | Met | Tyr | Lys | 675 | 680 | 685 | |
| Leu | Met | Glu | Lys | Arg | Asp | Met | Asn | Glu | Val | Glu | Thr | Gln | Phe | Lys | Ala | 690 | 695 | 700 | |
| Phe | Leu | Ile | Arg | Leu | Leu | Arg | Asp | Leu | Ile | Asp | Lys | Gln | Thr | Trp | Thr | 705 | 710 | 715 | 720 |
| Asp | Glu | Gly | Ser | Val | Ser | Glu | Arg | Met | Leu | Arg | Ser | Glu | Leu | Leu | Leu | 725 | 730 | 735 | |
| Leu | Ala | Cys | Val | His | Asn | Tyr | Gln | Pro | Cys | Val | Gln | Arg | Ala | Glu | Gly | 740 | 745 | 750 | |
| Tyr | Phe | Arg | Lys | Trp | Lys | Glu | Ser | Asn | Gly | Asn | Leu | Ser | Leu | Pro | Val | 755 | 760 | 765 | |
| Asp | Val | Thr | Leu | Ala | Val | Phe | Ala | Val | Gly | Ala | Gln | Ser | Thr | Glu | Gly | 770 | 775 | 780 | |
| Trp | Asp | Phe | Leu | Tyr | Ser | Lys | Tyr | Gln | Phe | Ser | Leu | Ser | Ser | Thr | Glu | 785 | 790 | 795 | 800 |
| Lys | Ser | Gln | Ile | Glu | Phe | Ala | Leu | Cys | Arg | Thr | Gln | Asn | Lys | Glu | Lys | 805 | 810 | 815 | |
| Leu | Gln | Trp | Leu | Leu | Asp | Glu | Ser | Phe | Lys | Gly | Asp | Lys | Ile | Lys | Thr | 820 | 825 | 830 | |
| Gln | Glu | Phe | Pro | Gln | Ile | Leu | Thr | Leu | Ile | Gly | Arg | Asn | Pro | Val | Gly | 835 | 840 | 845 | |
| Tyr | Pro | Leu | Ala | Trp | Gln | Phe | Leu | Arg | Lys | Asn | Trp | Asn | Lys | Leu | Val | 850 | 855 | 860 | |
| Gln | Lys | Phe | Glu | Leu | Gly | Ser | Ser | Ser | Ile | Ala | His | Met | Val | Met | Gly | 865 | 870 | 875 | 880 |

5612

Thr Thr Asn Gln Phe Ser Thr Arg Thr Arg Leu Glu Glu Val Lys Gly
 885 890 895

Phe Phe Ser Ser Leu Lys Glu Asn Gly Ser Gln Leu Arg Cys Val Gln
 900 905 910

Gln Thr Ile Glu Thr Ile Glu Glu Asn Ile Gly Trp Met Asp Lys Asn
 915 920 925

Phe Asp Lys Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met
 930 935 940

<210> 6372

<211> 377

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6372

Val Arg Asn Gly Ser Phe Cys Ser Pro Gly Ser Glu Pro Pro Gly Ala
 1 5 10 15

Ala Arg Gly Leu Ala Ala Pro Arg Pro Arg Cys Pro Pro Gly Val Pro
 20 25 30

Leu Leu Arg Ala Pro Ala Ala Gly Cys Gln Leu Phe Gly Ala Pro Ser
 35 40 45

Arg Thr Gln Arg Arg Glu Arg Ala Arg Asp Lys Leu Glu Leu Arg Pro
 50 55 60

Pro Arg Pro Ser Pro Ala Pro Leu Pro Leu Pro Pro Arg Gly Arg Ala
 65 70 75 80

Pro Thr Met Leu Gln Gly Pro Gly Ser Leu Leu Leu Leu Phe Leu Ala
 85 90 95

Ser His Cys Cys Leu Gly Ser Ala Arg Gly Leu Phe Leu Phe Gly Gln
 100 105 110

Pro Asp Phe Ser Tyr Lys Arg Ser Asn Cys Lys Pro Ile Pro Xaa Asn

5613

| | | |
|---|-----|-----|
| 115 | 120 | 125 |
| Leu Gln Leu Cys His Gly Ile Glu Tyr Gln Asn Met Arg Leu Pro Asn | | |
| 130 | 135 | 140 |
| Leu Leu Gly His Glu Thr Met Lys Glu Val Leu Glu Gln Ala Gly Ala | | |
| 145 | 150 | 155 |
| Trp Ile Pro Leu Val Met Lys Gln Cys His Pro Asp Thr Lys Lys Phe | | |
| | 165 | 170 |
| | | 175 |
| Leu Cys Ser Leu Phe Ala Pro Val Cys Leu Asp Asp Leu Asp Glu Thr | | |
| | 180 | 185 |
| | | 190 |
| Ile Gln Pro Cys His Ser Leu Cys Val Gln Val Lys Asp Arg Cys Ala | | |
| | 195 | 200 |
| | | 205 |
| Pro Val Met Ser Ala Phe Gly Phe Pro Trp Pro Asp Met Leu Glu Cys | | |
| | 210 | 215 |
| | | 220 |
| Asp Arg Phe Pro Gln Asp Asn Asp Leu Cys Ile Pro Leu Ala Ser Ser | | |
| 225 | 230 | 235 |
| | | 240 |
| Asp His Leu Leu Pro Ala Thr Glu Glu Ala Pro Lys Val Cys Glu Ala | | |
| | 245 | 250 |
| | | 255 |
| Cys Lys Asn Lys Asn Asp Asp Asp Asn Asp Ile Met Glu Thr Leu Cys | | |
| | 260 | 265 |
| | | 270 |
| Lys Asn Asp Phe Ala Leu Lys Ile Lys Val Lys Glu Ile Thr Tyr Ile | | |
| | 275 | 280 |
| | | 285 |
| Asn Arg Asp Thr Lys Ile Ile Leu Glu Thr Lys Ser Lys Thr Ile Tyr | | |
| | 290 | 295 |
| | | 300 |
| Lys Leu Asn Gly Val Ser Glu Arg Asp Leu Lys Lys Ser Val Leu Trp | | |
| 305 | 310 | 315 |
| | | 320 |
| Leu Lys Asp Ser Leu Gln Cys Thr Cys Glu Glu Met Asn Asp Ile Asn | | |
| | 325 | 330 |
| | | 335 |
| Ala Pro Tyr Leu Val Met Gly Gln Lys Gln Gly Gly Glu Leu Val Ile | | |
| | 340 | 345 |
| | | 350 |
| Thr Ser Val Lys Arg Trp Gln Lys Gly Gln Arg Glu Phe Lys Arg Ile | | |
| | 355 | 360 |
| | | 365 |
| Ser Arg Ser Ile Arg Lys Leu Gln Cys | | |
| 370 | 375 | |

5614

<210> 6373

<211> 442

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6373

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Xaa | Pro | Arg | Leu | Pro | Ala | Leu | Pro | Pro | Arg | Leu | Leu | Ser | Pro | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Thr | Met | Ser | Ala | Ser | Ala | Val | Phe | Ile | Leu | Asp | Val | Lys | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Pro | Leu | Ile | Ser | Arg | Asn | Tyr | Lys | Gly | Asp | Val | Ala | Met | Ser | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Glu | His | Phe | Met | Pro | Leu | Leu | Val | Gln | Arg | Glu | Glu | Glu | Gly | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Pro | Leu | Leu | Ser | His | Gly | Gln | Val | His | Phe | Leu | Trp | Ile | Lys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Ser | Asn | Leu | Tyr | Leu | Val | Ala | Thr | Thr | Ser | Lys | Asn | Ala | Asn | Ala |
| | | | 85 | | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Val | Tyr | Ser | Phe | Leu | Tyr | Lys | Thr | Ile | Glu | Val | Phe | Cys | Glu |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Phe | Lys | Glu | Leu | Glu | Glu | Glu | Ser | Ile | Arg | Asp | Asn | Phe | Val | Ile |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Tyr | Glu | Leu | Leu | Asp | Glu | Leu | Met | Asp | Phe | Gly | Phe | Pro | Gln | Xaa |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Asp | Ser | Lys | Ile | Leu | Gln | Glu | Tyr | Ile | Thr | Gln | Gln | Ser | Asn | Lys |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Glu | Thr | Gly | Lys | Ser | Arg | Val | Pro | Pro | Thr | Val | Thr | Asn | Ala | Val |
| | | | 165 | | | | | | 170 | | | | | 175 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Trp | Arg | Ser | Glu | Gly | Ile | Lys | Tyr | Lys | Lys | Asn | Glu | Val | Phe | Ile |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5615

| | | |
|---|-----|-----|
| 180 | 185 | 190 |
| Asp Val Ile Glu Ser Val Asn Leu Leu Val Asn Ala Asn Gly Ser Val | | |
| 195 | 200 | 205 |
| Leu Leu Ser Glu Ile Val Gly Thr Ile Lys Leu Lys Val Phe Leu Ser | | |
| 210 | 215 | 220 |
| Gly Met Pro Glu Leu Arg Leu Gly Leu Asn Asp Arg Val Leu Phe Glu | | |
| 225 | 230 | 235 |
| Leu Thr Gly Arg Ser Lys Asn Lys Ser Val Glu Leu Glu Asp Val Lys | | |
| | 245 | 250 |
| Phe His Gln Cys Val Arg Leu Ser Arg Phe Asp Asn Asp Arg Thr Ile | | |
| | 260 | 265 |
| Ser Phe Ile Pro Pro Asp Gly Asp Phe Glu Leu Met Ser Tyr Arg Leu | | |
| | 275 | 280 |
| Ser Thr Gln Val Lys Pro Leu Ile Trp Ile Glu Ser Val Ile Glu Lys | | |
| | 290 | 295 |
| Phe Ser His Ser Arg Val Glu Ile Met Val Lys Ala Lys Gly Gln Phe | | |
| 305 | 310 | 315 |
| Lys Lys Gln Ser Val Ala Asn Gly Val Glu Ile Ser Val Pro Val Pro | | |
| | 325 | 330 |
| Ser Asp Ala Asp Ser Pro Arg Phe Lys Thr Ser Val Gly Ser Ala Lys | | |
| | 340 | 345 |
| Tyr Val Pro Glu Arg Asn Val Val Ile Trp Ser Ile Lys Ser Phe Pro | | |
| | 355 | 360 |
| Gly Gly Lys Glu Tyr Leu Met Arg Ala His Phe Gly Leu Pro Ser Val | | |
| | 370 | 375 |
| Glu Lys Glu Glu Val Glu Gly Arg Pro Pro Ile Gly Val Lys Phe Glu | | |
| 385 | 390 | 395 |
| Ile Pro Tyr Phe Thr Val Ser Gly Ile Gln Val Arg Tyr Met Lys Ile | | |
| | 405 | 410 |
| Ile Glu Lys Ser Gly Tyr Gln Ala Leu Pro Trp Val Arg Tyr Ile Thr | | |
| | 420 | 425 |
| Gln Ser Gly Asp Tyr Gln Leu Arg Thr Ser | | |
| 435 | 440 | |

5616

<210> 6374

<211> 347

<212> PRT

<213> Homo sapiens

<400> 6374

Glu Glu Ala Asp Ala Glu Met Glu Gln Ala Leu His Arg Phe Gly Arg
 1 5 10 15
 Gly Leu Val Trp Leu Ser Val Ala Trp Leu Ser Val Gly Arg Val Arg
 20 25 30
 Val Arg Asp Asp Gly Asp Thr Gly Arg Gly Phe Cys Arg Ala Gly Pro
 35 40 45
 Val Leu Thr Arg Gly Pro Ser Gly Asp Ser Ser Pro Leu Pro Leu Pro
 50 55 60
 Thr Ser Val Thr Ala Ala Tyr Lys His Ala Asp Gly Lys Lys Ile Asp
 65 70 75 80
 Gly Arg Arg Val Leu Val Asp Val Glu Arg Gly Arg Thr Val Lys Gly
 85 90 95
 Trp Arg Pro Arg Arg Leu Gly Gly Gly Leu Gly Gly Thr Arg Arg Gly
 100 105 110
 Gly Ala Asp Val Asn Ile Arg His Ser Gly Arg Asp Asp Thr Ser Arg
 115 120 125
 Tyr Asp Glu Arg Pro Gly Pro Ser Pro Leu Pro His Arg Asp Arg Asp
 130 135 140
 Arg Asp Arg Glu Arg Glu Arg Arg Glu Arg Ser Arg Glu Arg Asp Lys
 145 150 155 160
 Glu Arg Glu Arg Arg Arg Ser Arg Ser Arg Asp Arg Arg Arg Arg Ser
 165 170 175
 Arg Ser Arg Asp Lys Glu Glu Arg Arg Arg Ser Arg Glu Arg Ser Lys
 180 185 190
 Asp Lys Asp Arg Asp Arg Lys Arg Arg Ser Ser Arg Ser Arg Glu Arg
 195 200 205
 Ala Arg Arg Glu Arg Glu Arg Lys Glu Glu Leu Arg Gly Gly Gly Gly
 210 215 220
 Asp Met Ala Glu Pro Ser Glu Ala Gly Asp Ala Pro Pro Asp Asp Gly
 225 230 235 240

5617

Pro Pro Gly Glu Leu Gly Pro Asp Gly Pro Asp Gly Pro Glu Glu Lys
 245 250 255
 Gly Arg Asp Arg Asp Arg Glu Arg Arg Arg Ser His Arg Ser Glu Arg
 260 265 270
 Glu Arg Arg Arg Asp Arg Asp Arg Asp Arg Asp Arg Asp Arg Glu His
 275 280 285
 Lys Arg Gly Glu Arg Gly Ser Glu Arg Gly Arg Asp Glu Ala Arg Gly
 290 295 300
 Gly Gly Gly Gly Gln Asp Asn Gly Leu Glu Gly Leu Gly Asn Asp Ser
 305 310 315 320
 Arg Asp Met Tyr Met Glu Ser Glu Gly Gly Asp Gly Tyr Leu Ala Pro
 325 330 335
 Glu Asn Gly Tyr Leu Met Glu Ala Ala Pro Glu
 340 345

<210> 6375

<211> 410

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6375

Tyr Arg Ser Thr Leu Gln Tyr Arg Ser Gly Ile Pro Gly Arg Pro Thr
 1 5 10 15

Xaa Arg Leu Ala Ser Pro Phe Arg Pro Val Pro Met Glu Ala Leu Gly
 20 25 30

Lys Leu Lys Gln Phe Asp Ala Tyr Pro Lys Thr Leu Glu Asp Phe Arg
 35 40 45

Val Lys Thr Cys Gly Gly Ala Thr Val Thr Ile Val Ser Gly Leu Leu
 50 55 60

Met Leu Leu Leu Phe Leu Ser Glu Leu Gln Tyr Tyr Leu Thr Thr Glu
 65 70 75 80

Val His Pro Glu Leu Tyr Val Asp Lys Ser Arg Gly Asp Lys Leu Lys

5618

| 85 | | | | | | | | | | 90 | | | | | 95 | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| Ile | Asn | Ile | Asp | Val | Leu | Phe | Pro | His | Met | Pro | Cys | Ala | Tyr | Leu | Ser | | | | |
| | | | 100 | | | | | | 105 | | | | | 110 | | | | | |
| Ile | Asp | Ala | Met | Asp | Val | Ala | Gly | Glu | Gln | Gln | Leu | Asp | Val | Glu | His | | | | |
| | | 115 | | | | | 120 | | | | | 125 | | | | | | | |
| Asn | Leu | Phe | Lys | Gln | Arg | Leu | Asp | Lys | Asp | Gly | Ile | Pro | Val | Ser | Ser | | | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | | | |
| Glu | Ala | Glu | Arg | His | Glu | Leu | Gly | Lys | Val | Glu | Val | Thr | Val | Phe | Asp | | | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | | | |
| Pro | Asp | Ser | Leu | Asp | Pro | Asp | Arg | Cys | Glu | Ser | Cys | Tyr | Gly | Ala | Glu | | | | |
| | | | 165 | | | | | 170 | | | | | 175 | | | | | | |
| Ala | Glu | Asp | Ile | Lys | Cys | Cys | Asn | Thr | Cys | Glu | Asp | Val | Arg | Glu | Ala | | | | |
| | | 180 | | | | | 185 | | | | | | 190 | | | | | | |
| Tyr | Arg | Arg | Arg | Gly | Trp | Ala | Phe | Lys | Asn | Pro | Asp | Thr | Ile | Glu | Gln | | | | |
| | 195 | | | | | | 200 | | | | | 205 | | | | | | | |
| Cys | Arg | Arg | Glu | Gly | Phe | Ser | Gln | Lys | Met | Gln | Glu | Gln | Lys | Asn | Glu | | | | |
| | 210 | | | | | 215 | | | | 220 | | | | | | | | | |
| Gly | Cys | Gln | Val | Tyr | Gly | Phe | Leu | Glu | Val | Asn | Lys | Val | Ala | Gly | Asn | | | | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | | | | |
| Phe | His | Phe | Ala | Pro | Gly | Lys | Ser | Phe | Gln | Gln | Ser | His | Val | His | Val | | | | |
| | | | 245 | | | | | 250 | | | | | | 255 | | | | | |
| His | Asp | Leu | Gln | Ser | Phe | Gly | Leu | Asp | Asn | Ile | Asn | Met | Thr | His | Tyr | | | | |
| | | 260 | | | | | 265 | | | | | | 270 | | | | | | |
| Ile | Gln | His | Leu | Ser | Phe | Gly | Glu | Asp | Tyr | Pro | Gly | Ile | Val | Asn | Pro | | | | |
| | 275 | | | | | | 280 | | | | | 285 | | | | | | | |
| Leu | Asp | His | Thr | Asn | Val | Thr | Ala | Pro | Gln | Ala | Ser | Met | Met | Phe | Gln | | | | |
| | 290 | | | | | 295 | | | | | 300 | | | | | | | | |
| Tyr | Phe | Val | Lys | Val | Val | Pro | Thr | Val | Tyr | Met | Lys | Val | Asp | Gly | Glu | | | | |
| 305 | | | | 310 | | | | | 315 | | | | | 320 | | | | | |
| Val | Leu | Arg | Thr | Asn | Gln | Phe | Ser | Val | Thr | Arg | His | Glu | Lys | Val | Ala | | | | |
| | | | 325 | | | | | 330 | | | | | 335 | | | | | | |
| Asn | Gly | Leu | Leu | Gly | Asp | Gln | Gly | Leu | Pro | Gly | Val | Phe | Val | Leu | Tyr | | | | |
| | | 340 | | | | | 345 | | | | | 350 | | | | | | | |
| Glu | Leu | Ser | Pro | Met | Met | Val | Lys | Leu | Thr | Glu | Lys | His | Arg | Ser | Phe | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 355 | | | | | 360 | | | | | 365 | | | | | |
| Thr | His | Phe | Leu | Thr | Gly | Val | Cys | Ala | Ile | Ile | Gly | Gly | Met | Phe | Thr |
| 370 | | | | | 375 | | | | | 380 | | | | | |
| Val | Ala | Gly | Leu | Ile | Asp | Ser | Leu | Ile | Tyr | His | Ser | Ala | Arg | Ala | Ile |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 |
| Gln | Lys | Lys | Ile | Asp | Leu | Gly | Lys | Thr | Thr | | | | | | |
| 405 | | | | | 410 | | | | | | | | | | |

Gly Leu Ser Glu Glu Ser Thr Thr Phe Tyr Ser Ser Pro Gly Ser Thr
50 55 60

5620

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Thr | Thr | Ala | Phe | Ser | His | Ser | Asn | Thr | Met | Ser | Ile | His | Ser | Gln | 65 | 70 | 75 | 80 |
| Gln | Ser | Thr | Pro | Phe | Pro | Asp | Ser | Pro | Gly | Phe | Thr | His | Thr | Val | Leu | 85 | 90 | 95 | |
| Pro | Ala | Thr | Leu | Thr | Thr | Thr | Asp | Ile | Gly | Gln | Glu | Ser | Thr | Ala | Phe | 100 | 105 | 110 | |
| His | Ser | Ser | Ser | Asp | Ala | Thr | Gly | Thr | Thr | Pro | Leu | Pro | Ala | Arg | Ser | 115 | 120 | 125 | |
| Thr | Ala | Ser | Asp | Leu | Val | Gly | Glu | Pro | Thr | Thr | Phe | Tyr | Ile | Ser | Pro | 130 | 135 | 140 | |
| Ser | Pro | Thr | Tyr | Thr | Thr | Leu | Phe | Pro | Ala | Ser | Ser | Ser | Thr | Ser | Gly | 145 | 150 | 155 | 160 |
| Leu | Thr | Glu | Glu | Ser | Thr | Thr | Phe | His | Thr | Ser | Pro | Ser | Phe | Thr | Ser | 165 | 170 | 175 | |
| Thr | Ile | Val | Ser | Thr | Glu | Ser | Leu | Glu | Thr | Leu | Ala | Pro | Gly | Leu | Cys | 180 | 185 | 190 | |
| Gln | Glu | Gly | Gln | Ile | Trp | Asn | Gly | Lys | Gln | Cys | Val | Cys | Pro | Gln | Gly | 195 | 200 | 205 | |
| Tyr | Val | Gly | Tyr | Gln | Cys | Leu | Ser | Pro | Leu | Glu | Ser | Phe | Pro | Val | Glu | 210 | 215 | 220 | |
| Thr | Pro | Glu | Lys | Leu | Asn | Ala | Thr | Leu | Gly | Met | Thr | Val | Lys | Val | Thr | 225 | 230 | 235 | 240 |
| Tyr | Arg | Asn | Phe | Thr | Glu | Lys | Met | Asn | Asp | Ala | Ser | Ser | Gln | Glu | Tyr | 245 | 250 | 255 | |
| Gln | Asn | Phe | Ser | Thr | Leu | Phe | Lys | Asn | Arg | Met | Asp | Val | Val | Leu | Lys | 260 | 265 | 270 | |
| Gly | Asp | Asn | Leu | Pro | Gln | Tyr | Arg | Gly | Val | Asn | Ile | Arg | Arg | Leu | Leu | 275 | 280 | 285 | |
| Asn | Gly | Ser | Ile | Val | Val | Lys | Asn | Asp | Val | Ile | Leu | Glu | Ala | Asp | Tyr | 290 | 295 | 300 | |
| Thr | Leu | Glu | Tyr | Glu | Glu | Leu | Phe | Glu | Asn | Leu | Ala | Glu | Ile | Val | Lys | 305 | 310 | 315 | 320 |
| Ala | Lys | Ile | Met | Asn | Glu | Thr | Arg | Thr | Thr | Leu | Leu | Asp | Pro | Asp | Ser | 325 | 330 | 335 | |

5621

Cys Arg Lys Ala Ile Leu Cys Tyr Ser Glu Glu Asp Thr Phe Val Asp
 340 345 350
 Ser Ser Val Thr Pro Gly Phe Asp Phe Gln Glu Gln Cys Thr Gln Lys
 355 360 365
 Ala Ala Glu Gly Tyr Thr Gln Phe Tyr Tyr Val Asp Val Leu Asp Gly
 370 375 380
 Lys Leu Ala Cys Val Asn Lys Cys Thr Lys Gly Thr Lys Ser Gln Met
 385 390 395 400
 Asn Cys Asn Leu Gly Thr Cys Gln Leu Gln Arg Ser Gly Pro Arg Cys
 405 410 415
 Leu Cys Pro Asn Thr Asn Thr His Trp Tyr Trp Gly Glu Thr Cys Glu
 420 425 430
 Phe Asn Ile Ala Lys Ser Leu Val Tyr Gly Ile Val Gly Ala Val Met
 435 440 445
 Ala Val Leu Leu Leu Ala Leu Ile Ile Leu Ile Ile Leu Phe Ser Leu
 450 455 460
 Ser Gln Arg Lys Arg His Arg Glu Gln Tyr Asp Val Pro Gln Glu Trp
 465 470 475 480
 Arg Lys Glu Gly Thr Pro Gly Ile Phe Gln Lys Thr Ala Ile Trp Glu
 485 490 495
 Asp Gln Asn Leu Arg Glu Ser Arg Phe Gly Leu Glu Asn Ala Tyr Asn
 500 505 510
 Asn Phe Arg Pro Thr Leu Glu Thr Val Asp Ser Gly Thr Glu Leu His
 515 520 525
 Ile Gln Arg Pro Glu Met Val Ala Ser Thr Val
 530 535

<210> 6377

<211> 365

<212> PRT

<213> Homo sapiens

<400> 6377

Gly Arg Val Gly Ser Pro Gly Gly Cys Pro Trp Val Leu Pro Ser Leu
 1 5 10 15

Pro Asp Thr Gln Thr Asp Leu Asp Arg Pro Pro Gly Arg Ser Arg Thr

30

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Gly | Arg | Pro | Asp | Ala | Ala | Met | Ala | Glu | Leu | Pro | Gly | Pro | Phe | Leu | Cys | |
| | | 35 | | | | | | 40 | | | | 45 | | | | |
| Gly | Ala | Leu | Leu | Gly | Phe | Leu | Cys | Leu | Ser | Gly | Leu | Ala | Val | Glu | Val | |
| | | 50 | | | 55 | | | | | 60 | | | | | | |
| Lys | Val | Pro | Thr | Glu | Pro | Leu | Ser | Thr | Pro | Leu | Gly | Lys | Thr | Ala | Glu | |
| 65 | | | | | 70 | | | | | 75 | | | 80 | | | |
| Leu | Thr | Cys | Thr | Tyr | Ser | Thr | Ser | Val | Gly | Asp | Ser | Phe | Ala | Leu | Glu | |
| | | 85 | | | | | | | 90 | | | | 95 | | | |
| Trp | Ser | Phe | Val | Gln | Pro | Gly | Lys | Pro | Ile | Ser | Glu | Ser | His | Pro | Ile | |
| | | 100 | | | | | 105 | | | | | | 110 | | | |
| Leu | Tyr | Phe | Thr | Asn | Gly | His | Leu | Tyr | Pro | Thr | Gly | Ser | Lys | Ser | Lys | |
| | | 115 | | | | | 120 | | | | 125 | | | | | |
| Arg | Val | Ser | Leu | Leu | Gln | Asn | Pro | Pro | Thr | Val | Gly | Val | Ala | Thr | Leu | |
| 130 | | | | | 135 | | | | | | 140 | | | | | |
| Lys | Leu | Thr | Asp | Val | His | Pro | Ser | Asp | Thr | Gly | Thr | Tyr | Leu | Cys | Gln | |
| 145 | | | | | 150 | | | | 155 | | | | | 160 | | |
| Val | Asn | Asn | Pro | Pro | Asp | Phe | Tyr | Thr | Asn | Gly | Leu | Gly | Leu | Ile | Asn | |
| | | 165 | | | | | 170 | | | | | | | 175 | | |
| Leu | Thr | Val | Leu | Val | Pro | Pro | Ser | Asn | Pro | Leu | Cys | Ser | Gln | Ser | Gly | |
| | | 180 | | | | | 185 | | | | | | | 190 | | |
| Gln | Thr | Ser | Val | Gly | Gly | Ser | Thr | Ala | Leu | Arg | Cys | Ser | Ser | Ser | Glu | |
| | | 195 | | | | | 200 | | | | 205 | | | | | |
| Gly | Ala | Pro | Lys | Pro | Val | Tyr | Asn | Trp | Val | Arg | Leu | Gly | Thr | Phe | Pro | |
| 210 | | | | | 215 | | | | | | 220 | | | | | |
| Thr | Pro | Ser | Pro | Gly | Ser | Met | Val | Gln | Asp | Glu | Val | Ser | Gly | Gln | Leu | |
| 225 | | | | | 230 | | | | 235 | | | | | 240 | | |
| Ile | Leu | Thr | Asn | Leu | Ser | Leu | Thr | Ser | Ser | Gly | Thr | Tyr | Arg | Cys | Val | |
| | | 245 | | | | | 250 | | | | | | | 255 | | |
| Ala | Thr | Asn | Gln | Met | Gly | Ser | Ala | Ser | Cys | Glu | Leu | Thr | Leu | Ser | Val | |
| | | 260 | | | | | 265 | | | | | | | 270 | | |
| Thr | Glu | Pro | Ser | Gln | Gly | Arg | Val | Ala | Gly | Ala | Leu | Ile | Gly | Val | Leu | |
| | | 275 | | | | | 280 | | | | 285 | | | | | |
| Leu | Gly | Val | Leu | Leu | Leu | Ser | Val | Ala | Ala | Phe | Cys | Leu | Val | Arg | Phe | |

5623

290 295 300
 Gln Lys Glu Arg Gly Lys Lys Pro Lys Glu Thr Tyr Gly Gly Ser Asp
 305 310 315 320
 Leu Arg Glu Asp Ala Ile Ala Pro Gly Ile Ser Glu His Thr Cys Met
 325 330 335
 Arg Ala Asp Ser Ser Lys Gly Phe Leu Glu Arg Pro Ser Ser Ala Ser
 340 345 350
 Thr Val Thr Thr Thr Lys Ser Lys Leu Pro Met Val Val
 355 360 365

 <210> 6378
 <211> 869
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6378
 Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Val Thr Xaa Ala Ser
 1 5 10 15
 Leu Tyr Leu Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys Asn Val
 20 25 30
 Ala Ile Leu Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp Tyr Val Arg
 35 40 45
 Pro Lys Leu Glu Thr Tyr Lys Asn Ala Asp Val Leu Val Ala Glu Ser
 50 55 60
 Thr Pro Pro Gly Asn Asp Glu Pro Tyr Thr Glu Gln Met Gly Asn Cys
 65 70 75 80
 Gly Glu Lys Gly Glu Arg Ile His Leu Thr Pro Asp Phe Ile Ala Gly
 85 90 95
 Lys Lys Leu Ala Glu Tyr Gly Pro Gln Gly Arg Ala Phe Val His Glu
 100 105 110
 Trp Ala His Leu Arg Trp Gly Val Phe Asp Glu Tyr Asn Asn Asp Glu
 115 120 125

5624

Lys Phe Tyr Leu Ser Asn Gly Arg Ile Gln Ala Val Arg Cys Ser Ala
 130 135 140
 Gly Ile Thr Gly Thr Asn Val Val Lys Lys Cys Gln Gly Gly Ser Cys
 145 150 155 160
 Tyr Thr Lys Arg Cys Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys
 165 170 175
 Gly Cys Glu Phe Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile
 180 185 190
 Met Phe Ala Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln
 195 200 205
 Asn His Asn Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu
 210 215 220
 Arg Ser Thr Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr
 225 230 235 240
 Thr Pro Met Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu Gln
 245 250 255
 Ile Gly Gln Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly Ser Met
 260 265 270
 Ala Thr Gly Asn Arg Leu Asn Arg Leu Asn Gln Ala Gly Gln Leu Phe
 275 280 285
 Leu Leu Gln Thr Val Glu Leu Gly Ser Trp Val Gly Met Val Thr Phe
 290 295 300
 Asp Ser Ala Ala His Val Gln Ser Glu Leu Ile Gln Ile Asn Ser Gly
 305 310 315 320
 Ser Asp Arg Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala Ala Ser Gly
 325 330 335
 Gly Thr Ser Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr Val Ile Arg
 340 345 350
 Lys Lys Tyr Pro Thr Asp Gly Ser Glu Ile Val Leu Leu Thr Asp Gly
 355 360 365
 Glu Asp Asn Thr Ile Ser Gly Cys Phe Asn Glu Val Lys Gln Ser Gly
 370 375 380
 Ala Ile Ile His Thr Val Ala Leu Gly Pro Ser Ala Ala Gln Glu Leu
 385 390 395 400

-

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Glu | Glu | Leu | Ser | Lys | Met | Thr | Gly | Gly | Leu | Gln | Thr | Tyr | Ala | Ser | Asp | |
| | | | | 405 | | | | | | | 410 | | | 415 | | |
| Gln | Val | Gln | Asn | Asn | Gly | Leu | Ile | Asp | Ala | Phe | Gly | Ala | Leu | Ser | Ser | |
| | | | | 420 | | | | | | | 425 | | | 430 | | |
| Gly | Asn | Gly | Ala | Val | Ser | Gln | Arg | Ser | Ile | Gln | Leu | Glu | Ser | Lys | Gly | |
| | | | | 435 | | | | | | | 440 | | | 445 | | |
| Leu | Thr | Leu | Gln | Asn | Ser | Gln | Trp | Met | Asn | Gly | Thr | Val | Ile | Val | Asp | |
| | | | | 450 | | | | | | | 455 | | | 460 | | |
| Ser | Thr | Val | Gly | Lys | Asp | Thr | Leu | Phe | Leu | Ile | Thr | Trp | Thr | Thr | Gln | |
| 465 | | | | 470 | | | | | | | 475 | | | 480 | | |
| Pro | Pro | Gln | Ile | Leu | Leu | Trp | Asp | Pro | Ser | Gly | Gln | Lys | Gln | Gly | Gly | |
| | | | | 485 | | | | | | | 490 | | | 495 | | |
| Phe | Val | Val | Asp | Lys | Asn | Thr | Lys | Met | Ala | Tyr | Leu | Gln | Ile | Pro | Gly | |
| | | | | 500 | | | | | | | 505 | | | 510 | | |
| Ile | Ala | Lys | Val | Gly | Thr | Trp | Lys | Tyr | Ser | Leu | Gln | Ala | Ser | Ser | Gln | |
| | | | | 515 | | | | | | | 520 | | | 525 | | |
| Thr | Leu | Thr | Leu | Thr | Val | Thr | Ser | Arg | Ala | Ser | Asn | Ala | Thr | Leu | Pro | |
| | | | | 530 | | | | | | | 535 | | | 540 | | |
| Pro | Ile | Thr | Val | Thr | Ser | Lys | Thr | Asn | Lys | Asp | Thr | Ser | Lys | Phe | Pro | |
| 545 | | | | 550 | | | | | | | 555 | | | 560 | | |
| Ser | Pro | Leu | Val | Val | Tyr | Ala | Asn | Ile | Arg | Gln | Gly | Ala | Ser | Pro | Ile | |
| | | | | 565 | | | | | | | 570 | | | 575 | | |
| Leu | Arg | Ala | Ser | Val | Thr | Ala | Leu | Ile | Glu | Ser | Val | Asn | Gly | Lys | Thr | |
| | | | | 580 | | | | | | | 585 | | | 590 | | |
| Val | Thr | Leu | Glu | Leu | Leu | Asp | Asn | Gly | Ala | Gly | Ala | Asp | Ala | Thr | Lys | |
| | | | | 595 | | | | | | | 600 | | | 605 | | |
| Asp | Asp | Gly | Val | Tyr | Ser | Arg | Tyr | Phe | Thr | Thr | Tyr | Asp | Thr | Asn | Gly | |
| 610 | | | | 615 | | | | | | | 620 | | | | | |
| Arg | Tyr | Ser | Val | Lys | Val | Arg | Ala | Leu | Gly | Gly | Val | Asn | Ala | Ala | Arg | |
| 625 | | | | 630 | | | | | | | 635 | | | 640 | | |
| Arg | Arg | Val | Ile | Pro | Gln | Gln | Ser | Gly | Ala | Leu | Tyr | Ile | Pro | Gly | Trp | |
| | | | | 645 | | | | | | | 650 | | | 655 | | |
| Ile | Glu | Asn | Asp | Glu | Ile | Gln | Trp | Asn | Pro | Pro | Arg | Pro | Glu | Ile | Asn | |
| | | | | 660 | | | | | | | 665 | | | 670 | | |

5626

Lys Asp Asp Val Gln His Lys Gln Val Cys Phe Ser Arg Thr Ser Ser
 675 680 685

Gly Gly Ser Phe Val Ala Ser Asp Val Pro Asn Ala Pro Ile Pro Asp
 690 695 700

Leu Phe Pro Pro Gly Gln Ile Thr Asp Leu Lys Ala Glu Ile His Gly
 705 710 715 720

Gly Ser Leu Ile Asn Leu Thr Trp Thr Ala Pro Gly Asp Asp Tyr Asp
 725 730 735

His Gly Thr Ala His Lys Tyr Ile Ile Arg Ile Ser Thr Ser Ile Leu
 740 745 750

Asp Leu Arg Asp Lys Phe Asn Glu Ser Leu Gln Val Asn Thr Thr Ala
 755 760 765

Leu Ile Pro Lys Glu Ala Asn Ser Glu Glu Val Phe Leu Phe Lys Pro
 770 775 780

Glu Asn Ile Thr Phe Glu Asn Gly Thr Asp Leu Phe Ile Ala Ile Gln
 785 790 795 800

Ala Val Asp Lys Val Asp Leu Lys Ser Glu Ile Ser Asn Ile Ala Arg
 805 810 815

Val Ser Leu Phe Ile Pro Pro Gln Thr Pro Pro Glu Thr Pro Ser Pro
 820 825 830

Asp Glu Thr Ser Ala Pro Cys Pro Asn Ile His Ile Asn Ser Thr Ile
 835 840 845

Pro Gly Ile His Ile Leu Lys Ile Met Trp Lys Trp Ile Gly Glu Leu
 850 855 860

Gln Leu Ser Ile Ala
 865

<210> 6379

<211> 275

<212> PRT

<213> Homo sapiens

<400> 6379

Pro Thr Arg Pro His Ser Ser Gly Tyr Leu Pro Thr Met Ala Leu Val
 1 5 10 15

Leu Ile Leu Gln Leu Leu Thr Leu Trp Pro Leu Cys His Thr Asp Ile

5627

| 20 | | | | 25 | | | | 30 | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Pro | Ser | Val | Pro | Pro | Ala | Ser | Tyr | His | Pro | Lys | Pro | Trp | Leu | Gly |
| | | 35 | | | | | 40 | | | | | | | 45 | |
| Ala | Gln | Pro | Ala | Thr | Val | Val | Thr | Pro | Gly | Val | Asn | Val | Thr | Leu | Arg |
| | | 50 | | | | 55 | | | | | 60 | | | | |
| Cys | Arg | Ala | Pro | Gln | Pro | Ala | Trp | Arg | Phe | Gly | Leu | Phe | Lys | Pro | Gly |
| | | 65 | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Ile | Ala | Pro | Leu | Leu | Phe | Arg | Asp | Val | Ser | Ser | Glu | Leu | Ala | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Phe | Phe | Leu | Glu | Glu | Val | Thr | Pro | Ala | Gln | Gly | Gly | Ser | Tyr | Arg | Cys |
| | | | 100 | | | | | 105 | | | | | | 110 | |
| Cys | Tyr | Arg | Arg | Pro | Asp | Trp | Gly | Pro | Gly | Val | Trp | Ser | Gln | Pro | Ser |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asp | Val | Leu | Glu | Leu | Leu | Val | Thr | Glu | Glu | Leu | Pro | Arg | Pro | Ser | Leu |
| | | 130 | | | | 135 | | | | | 140 | | | | |
| Val | Ala | Leu | Pro | Gly | Pro | Val | Val | Gly | Pro | Gly | Ala | Asn | Val | Ser | Leu |
| | | | | | 150 | | | | | 155 | | | | | 160 |
| Arg | Cys | Ala | Gly | Arg | Leu | Arg | Asn | Met | Ser | Phe | Val | Leu | Tyr | Arg | Glu |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Gly | Val | Ala | Ala | Pro | Leu | Gln | Tyr | Arg | His | Ser | Ala | Gln | Pro | Trp | Ala |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Asp | Phe | Thr | Leu | Leu | Gly | Ala | Arg | Ala | Pro | Gly | Thr | Tyr | Ser | Cys | Tyr |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Tyr | His | Thr | Pro | Ser | Ala | Pro | Tyr | Val | Leu | Ser | Gln | Arg | Ser | Glu | Val |
| | | 210 | | | | 215 | | | | | 220 | | | | |
| Leu | Val | Ile | Ser | Trp | Glu | Asp | Ser | Gly | Ser | Ser | Asp | Tyr | Thr | Arg | Gly |
| | | | | 230 | | | | | | 235 | | | | | 240 |
| Asn | Leu | Val | Arg | Leu | Gly | Leu | Ala | Gly | Leu | Val | Leu | Ile | Ser | Leu | Gly |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Ala | Leu | Val | Thr | Phe | Asp | Trp | Arg | Ser | Gln | Asn | Arg | Ala | Pro | Ala | Gly |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Ile | Arg | Pro | | | | | | | | | | | | | |
| | | 275 | | | | | | | | | | | | | |

5628

<210> 6380

<211> 708

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6380

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Arg | Arg | Leu | Leu | Ser | Thr | Ser | Arg | Arg | Cys | Ser | Arg | Arg | Arg | Arg |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Val | Arg | Cys | Gln | Ala | Ala | Pro | Ser | Pro | Gly | Ala | Arg | Arg | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Cys | Arg | Gly | Ala | Pro | Gly | Arg | Thr | Ala | Arg | Pro | Ala | Pro | Pro | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Phe | Gly | Xaa | Ala | Met | Gly | Cys | Cys | Ser | Ser | Ala | Ser | Ser | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gln | Ser | Ser | Lys | Arg | Glu | Trp | Lys | Pro | Leu | Glu | Asp | Arg | Ser | Cys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Asp | Ile | Pro | Trp | Leu | Leu | Leu | Phe | Ile | Leu | Phe | Cys | Ile | Gly | Met |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Phe | Ile | Cys | Gly | Phe | Ser | Ile | Ala | Thr | Gly | Ala | Ala | Ala | Arg | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Gly | Tyr | Asp | Ser | Tyr | Gly | Asn | Ile | Cys | Gly | Gln | Lys | Asn | Thr |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Glu | Ala | Ile | Pro | Asn | Ser | Gly | Met | Asp | His | Thr | Gln | Arg | Lys |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Val | Phe | Phe | Leu | Asp | Pro | Cys | Asn | Leu | Asp | Leu | Ile | Asn | Arg | Lys |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Lys | Ser | Val | Ala | Leu | Cys | Val | Ala | Ala | Cys | Pro | Arg | Gln | Glu | Leu |
| | | | | 165 | | | | | 170 | | | | | 175 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Thr | Leu | Ser | Asp | Val | Gln | Lys | Phe | Ala | Glu | Ile | Asn | Gly | Ser | Ala |
| | | | | 180 | | | | 185 | | | | | 190 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Cys | Ser | Tyr | Asn | Leu | Lys | Pro | Ser | Glu | Tyr | Thr | Thr | Ser | Pro | Lys |
| | | 195 | | | | | 200 | | | | | 205 | | | |

5629

Ser Ser Val Leu Cys Pro Lys Leu Pro Val Pro Ala Ser Ala Pro Ile
 210 215 220
 Pro Phe Phe His Arg Cys Ala Pro Val Asn Ile Ser Cys Tyr Ala Lys
 225 230 235 240
 Phe Ala Glu Ala Leu Ile Thr Phe Val Ser Asp Asn Ser Val Leu His
 245 250 255
 Arg Leu Ile Ser Gly Val Met Thr Ser Lys Glu Ile Ile Leu Gly Leu
 260 265 270
 Cys Leu Leu Ser Leu Val Leu Ser Met Ile Leu Met Val Ile Ile Arg
 275 280 285
 Tyr Ile Ser Arg Val Leu Val Trp Ile Leu Thr Ile Leu Val Ile Leu
 290 295 300
 Gly Ser Leu Gly Gly Thr Gly Val Leu Trp Trp Leu Tyr Ala Lys Gln
 305 310 315 320
 Arg Arg Ser Pro Lys Glu Thr Val Thr Pro Glu Gln Leu Gln Ile Ala
 325 330 335
 Glu Asp Asn Leu Arg Ala Leu Leu Ile Tyr Ala Ile Ser Ala Thr Val
 340 345 350
 Phe Thr Val Ile Leu Phe Leu Ile Met Leu Val Met Arg Lys Arg Val
 355 360 365
 Ala Leu Thr Ile Ala Leu Phe His Val Ala Gly Lys Val Phe Ile His
 370 375 380
 Leu Pro Leu Leu Val Phe Gln Pro Phe Trp Thr Phe Phe Ala Leu Val
 385 390 395 400
 Leu Phe Trp Val Tyr Trp Ile Met Thr Leu Leu Phe Leu Gly Thr Thr
 405 410 415
 Gly Ser Pro Val Gln Asn Glu Gln Gly Phe Val Glu Phe Lys Ile Ser
 420 425 430
 Gly Pro Leu Gln Tyr Met Trp Trp Tyr His Val Val Gly Leu Ile Trp
 435 440 445
 Ile Ser Glu Phe Ile Leu Ala Cys Gln Gln Met Thr Val Ala Gly Ala
 450 455 460
 Val Val Thr Tyr Tyr Phe Thr Arg Asp Lys Arg Asn Leu Pro Phe Thr
 465 470 475 480

5630

Pro Ile Leu Ala Ser Val Asn Arg Leu Ile Arg Tyr His Leu Gly Thr
 485 490 495

Val Ala Lys Gly Ser Phe Ile Ile Thr Leu Val Lys Ile Pro Arg Met
 500 505 510

Ile Leu Met Tyr Ile His Ser Gln Leu Lys Gly Lys Glu Asn Ala Cys
 515 520 525

Ala Arg Cys Val Leu Lys Ser Cys Ile Cys Cys Leu Trp Cys Leu Glu
 530 535 540

Lys Cys Leu Asn Tyr Leu Asn Gln Asn Ala Tyr Thr Ala Thr Ala Ile
 545 550 555 560

Asn Ser Thr Asn Phe Cys Thr Ser Ala Lys Asp Ala Phe Val Ile Leu
 565 570 575

Val Glu Asn Ala Leu Arg Val Ala Thr Ile Asn Thr Val Gly Asp Phe
 580 585 590

Met Leu Phe Leu Gly Lys Val Leu Ile Val Cys Ser Thr Gly Leu Ala
 595 600 605

Gly Ile Met Leu Leu Asn Tyr Gln Gln Asp Tyr Thr Val Trp Val Leu
 610 615 620

Pro Leu Ile Ile Val Cys Leu Phe Ala Phe Leu Val Ala His Cys Phe
 625 630 635 640

Leu Ser Ile Tyr Glu Met Val Val Asp Val Leu Phe Leu Cys Phe Ala
 645 650 655

Ile Asp Thr Lys Tyr Asn Asp Gly Ser Pro Gly Arg Glu Phe Tyr Met
 660 665 670

Asp Lys Val Leu Met Glu Phe Val Glu Asn Ser Arg Lys Ala Met Lys
 675 680 685

Glu Ala Gly Lys Gly Gly Val Ala Asp Ser Arg Glu Leu Lys Pro Met
 690 695 700

Leu Lys Lys Arg
 705

<210> 6381

<211> 625

<212> PRT

<213> Homo sapiens

5631

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (222)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (231)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (278)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (279)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (440)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6381
 Ala Val Arg Leu Pro Ala Ala Tyr Ile Lys Ala Pro Gly His Ala Glu
 1 5 10 15
 Pro Ser Ser Arg Thr Arg Pro Thr Thr Met Arg Ser Cys Leu Trp Arg
 20 25 30
 Cys Arg His Leu Ser Gln Gly Val Gln Trp Ser Leu Leu Leu Ala Val
 35 40 45
 Leu Val Phe Phe Leu Phe Ala Leu Pro Ser Phe Ile Lys Glu Pro Gln
 50 55 60
 Thr Lys Pro Ser Arg His Gln Arg Thr Glu Asn Ile Lys Glu Arg Ser
 65 70 75 80
 Leu Gln Ser Leu Ala Lys Pro Lys Ser Gln Ala Pro Thr Arg Ala Arg
 85 90 95
 Arg Thr Thr Ile Tyr Ala Glu Pro Xaa Pro Glu Asn Asn Ala Leu Asn

5632

| | | |
|---|-----|-----|
| 100 | 105 | 110 |
| Thr Gln Thr Gln Pro Lys Ala His Thr Thr Gly Asp Arg Gly Lys Glu | | |
| 115 | 120 | 125 |
| Ala Asn Gln Ala Pro Pro Glu Glu Gln Asp Lys Val Pro His Thr Ala | | |
| 130 | 135 | 140 |
| Gln Arg Ala Ala Trp Lys Ser Pro Glu Lys Glu Lys Thr Met Val Asn | | |
| 145 | 150 | 155 |
| Thr Leu Ser Pro Arg Gly Gln Asp Ala Gly Met Ala Ser Gly Arg Thr | | |
| | 165 | 170 |
| Glu Ala Gln Ser Trp Lys Ser Gln Asp Thr Lys Thr Thr Gln Gly Asn | | |
| | 180 | 185 |
| Gly Gly Gln Thr Arg Lys Leu Thr Ala Ser Arg Thr Val Ser Glu Lys | | |
| | 195 | 200 |
| His Gln Gly Lys Ala Ala Thr Thr Ala Lys Thr Leu Ile Xaa Lys Ser | | |
| | 210 | 215 |
| Gln His Arg Met Leu Ala Xaa Thr Gly Ala Val Ser Thr Arg Thr Arg | | |
| | 225 | 230 |
| Gln Lys Gly Val Thr Thr Ala Val Ile Pro Pro Lys Glu Lys Lys Pro | | |
| | 245 | 250 |
| Gln Ala Thr Pro Pro Pro Ala Pro Phe Gln Ser Pro Thr Thr Gln Arg | | |
| | 260 | 265 |
| Asn Gln Arg Leu Lys Xaa Xaa Asn Phe Lys Ser Glu Pro Arg Trp Asp | | |
| | 275 | 280 |
| Phe Glu Glu Lys Tyr Ser Phe Glu Ile Gly Gly Leu Gln Thr Thr Cys | | |
| | 290 | 295 |
| Pro Asp Ser Val Lys Ile Lys Ala Ser Lys Ser Leu Trp Leu Gln Lys | | |
| | 305 | 310 |
| Leu Phe Leu Pro Asn Leu Thr Leu Phe Leu Asp Ser Arg His Phe Asn | | |
| | 325 | 330 |
| Gln Ser Glu Trp Asp Arg Leu Glu His Phe Ala Pro Pro Phe Gly Phe | | |
| | 340 | 345 |
| Met Glu Leu Asn Tyr Ser Leu Val Gln Lys Val Val Thr Arg Phe Pro | | |
| | 355 | 360 |
| Pro Val Pro Gln Gln Gln Leu Leu Leu Ala Ser Leu Pro Ala Gly Ser | | |

5633

| | | | | | |
|---|-----|-----|-----|-----|-----|
| 370 | | 375 | | 380 | |
| Leu Arg Cys Ile Thr Cys Ala Val Val Gly Asn Gly Gly Ile Leu Asn | | | | | |
| 385 | | 390 | | 395 | 400 |
| Asn Ser His Met Gly Gln Glu Ile Asp Ser His Asp Tyr Val Phe Arg | | | | | |
| | 405 | | 410 | | 415 |
| Leu Ser Gly Ala Leu Ile Lys Gly Tyr Glu Gln Asp Val Gly Thr Arg | | | | | |
| | 420 | | 425 | | 430 |
| Thr Ser Phe Tyr Gly Phe Thr Xaa Phe Ser Leu Thr Gln Ser Leu Leu | | | | | |
| | 435 | | 440 | | 445 |
| Ile Leu Gly Asn Arg Gly Phe Lys Asn Val Pro Leu Gly Lys Asp Val | | | | | |
| | 450 | | 455 | | 460 |
| Arg Tyr Leu His Phe Leu Glu Gly Thr Arg Asp Tyr Glu Trp Leu Glu | | | | | |
| 465 | | 470 | | 475 | 480 |
| Ala Leu Leu Met Asn Gln Thr Val Met Ser Lys Asn Leu Phe Trp Phe | | | | | |
| | 485 | | 490 | | 495 |
| Arg His Arg Pro Gln Glu Ala Phe Arg Glu Ala Leu His Met Asp Arg | | | | | |
| | 500 | | 505 | | 510 |
| Tyr Leu Leu Leu His Pro Asp Phe Leu Arg Tyr Met Lys Asn Arg Phe | | | | | |
| | 515 | | 520 | | 525 |
| Leu Arg Ser Lys Thr Leu Asp Gly Ala His Trp Arg Ile Tyr Arg Pro | | | | | |
| | 530 | | 535 | | 540 |
| Thr Thr Gly Ala Leu Leu Leu Leu Thr Ala Leu Gln Leu Cys Asp Gln | | | | | |
| 545 | | 550 | | 555 | 560 |
| Val Ser Ala Tyr Gly Phe Ile Thr Glu Gly His Glu Arg Phe Ser Asp | | | | | |
| | 565 | | 570 | | 575 |
| His Tyr Tyr Asp Thr Ser Trp Lys Arg Leu Ile Phe Tyr Ile Asn His | | | | | |
| | 580 | | 585 | | 590 |
| Asp Phe Lys Leu Glu Arg Glu Val Trp Lys Arg Leu His Asp Glu Gly | | | | | |
| | 595 | | 600 | | 605 |
| Ile Ile Arg Leu Tyr Gln Arg Pro Gly Pro Gly Thr Ala Lys Ala Lys | | | | | |
| | 610 | | 615 | | 620 |
| Asn | | | | | |
| 625 | | | | | |

5634

<210> 6382

<211> 299

<212> PRT

<213> Homo sapiens

<400> 6382

Gln Met Glu Lys Lys Glu Cys Pro Glu Lys Ser Ser Ser Ser Glu Glu
 1 5 10 15
 Glu Leu Pro Arg Arg Val Tyr Arg Glu Leu Pro Cys Val Ser Glu Thr
 20 25 30
 Leu Cys Asp Ile Ser His Phe Phe Gln Glu Asp Asp Glu Thr Glu Ala
 35 40 45
 Glu Pro Leu Leu Phe Arg Ala Val Pro Glu Cys Gln Leu Ser Gly Gly
 50 55 60
 Asp Ile Pro Ser Val Ser Glu Glu Gln Glu Ser Ser Glu Gly Gln Asp
 65 70 75 80
 Ser Gly Asp Ile Cys Ser Glu Glu Asn Gln Ile Val Ser Ser Tyr Ala
 85 90 95
 Ser Lys Val Cys Phe Glu Ile Glu Glu Asp Tyr Lys Asn Arg Gln Phe
 100 105 110
 Leu Gly Pro Glu Gly Asn Val Asp Val Glu Leu Ile Asp Lys Ser Thr
 115 120 125
 Asn Arg Tyr Ser Val Trp Phe Pro Thr Ala Gly Trp Tyr Leu Trp Ser
 130 135 140
 Ala Thr Gly Leu Gly Phe Leu Val Arg Asp Glu Val Thr Val Thr Ile
 145 150 155 160
 Ala Phe Gly Ser Trp Ser Gln His Leu Ala Leu Asp Leu Gln His His
 165 170 175
 Glu Gln Trp Leu Val Gly Gly Pro Leu Phe Asp Val Thr Ala Glu Pro
 180 185 190
 Glu Glu Ala Val Ala Glu Ile His Leu Pro His Phe Ile Ser Leu Gln
 195 200 205
 Ala Gly Glu Val Asp Val Ser Trp Phe Leu Val Ala His Phe Lys Asn
 210 215 220
 Glu Gly Met Val Leu Glu His Pro Ala Arg Val Glu Pro Phe Tyr Ala
 225 230 235 240

5635

Val Leu Glu Ser Pro Ser Phe Ser Leu Met Gly Ile Leu Leu Arg Ile
 245 250 255

Ala Ser Gly Thr Arg Leu Ser Ile Pro Ile Thr Ser Asn Thr Leu Ile
 260 265 270

Tyr Tyr His Pro His Pro Glu Asp Ile Lys Phe His Leu Tyr Leu Val
 275 280 285

Pro Ser Asp Ala Leu Leu Thr Lys Thr Leu Phe
 290 295

<210> 6383

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6383

Glu Thr Arg Val Lys Thr Ser Leu Glu Leu Leu Arg Thr Gln Leu Glu
 1 5 10 15

Pro Thr Gly Thr Val Gly Asn Thr Ile Met Thr Ser Gln Pro Val Pro
 20 25 30

Asn Glu Thr Ile Ile Val Leu Pro Ser Asn Val Ile Asn Phe Ser Gln
 35 40 45

Ala Glu Lys Pro Glu Pro Thr Asn Gln Gly Gln Asp Ser Leu Lys Lys
 50 55 60

His Leu His Ala Glu Ile Lys Val Ile Gly Thr Ile Gln Ile Leu Cys
 65 70 75 80

Gly Met Met Val Leu Ser Leu Gly Ile Ile Leu Ala Ser Ala Ser Phe
 85 90 95

Ser Pro Asn Phe Thr Gln Val Thr Ser Thr Leu Leu Asn Ser Ala Tyr
 100 105 110

Pro Phe Ile Gly Pro Phe Phe Phe Ile Ile Ser Gly Ser Leu Ser Ile
 115 120 125

Ala Thr Glu Lys Arg Leu Thr Lys Leu Leu Val His Ser Ser Leu Val

5636

130 135 140
 Gly Ser Ile Leu Ser Ala Leu Ser Ala Leu Val Gly Phe Ile Ile Leu
 145 150 155 160
 Ser Val Lys Gln Ala Thr Leu Asn Pro Ala Ser Leu Gln Cys Glu Leu
 165 170 175
 Asp Lys Asn Asn Ile Pro Thr Arg Ser Tyr Val Ser Tyr Phe Tyr His
 180 185 190
 Asp Ser Leu Tyr Thr Thr Asp Cys Tyr Thr Ala Lys Ala Ser Leu Ala
 195 200 205
 Gly Xaa Leu Ser Leu Met Leu Ile Cys Thr Leu Leu Glu Phe Cys Leu
 210 215 220
 Ala Val Leu Thr Ala Val Leu Arg Trp Lys Gln Ala Tyr Ser Asp Phe
 225 230 235 240
 Pro Gly Ser Val Leu Phe Leu Pro His Ser Tyr Ile Gly Asn Ser Gly
 245 250 255
 Met Ser Ser Lys Met Thr His Asp Cys Gly Tyr Glu Glu Leu Leu Thr
 260 265 270
 Ser

<210> 6384
 <211> 166
 <212> PRT
 <213> Homo sapiens

<400> 6384
 Leu His Pro Gln Gly Arg Arg Lys Met Ala Ser Arg Ser Met Arg Leu
 1 5 10 15
 Leu Leu Leu Leu Ser Cys Leu Ala Lys Thr Gly Val Leu Gly Asp Ile
 20 25 30
 Ile Met Arg Pro Ser Cys Ala Pro Gly Trp Phe Tyr His Lys Ser Asn
 35 40 45
 Cys Tyr Gly Tyr Phe Arg Lys Leu Arg Asn Trp Ser Asp Ala Glu Leu
 50 55 60
 Glu Cys Gln Ser Tyr Gly Asn Gly Ala His Leu Ala Ser Ile Leu Ser
 65 70 75 80

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Leu | Lys | Glu | Ala | Ser | Thr | Ile | Ala | Glu | Tyr | Ile | Ser | Gly | Tyr | Gln | Arg | |
| | | | | 85 | | | | | 90 | | | | | 95 | | |
| Ser | Gln | Pro | Ile | Trp | Ile | Gly | Leu | His | Asp | Pro | Gln | Lys | Arg | Gln | Gln | |
| | | | | 100 | | | | | 105 | | | | | 110 | | |
| Trp | Gln | Trp | Ile | Asp | Gly | Ala | Met | Tyr | Leu | Tyr | Arg | Ser | Trp | Ser | Gly | |
| | | | | 115 | | | | | 120 | | | | | 125 | | |
| Lys | Ser | Met | Gly | Gly | Asn | Lys | His | Cys | Ala | Glu | Met | Ser | Ser | Asn | Asn | |
| | | | | 130 | | | | | 135 | | | | | 140 | | |
| Asn | Phe | Leu | Thr | Trp | Ser | Ser | Asn | Glu | Cys | Asn | Lys | Arg | Gln | His | Phe | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| Leu | Cys | Lys | Tyr | Arg | Pro | | | | | | | | | | | |
| | | | | | | 165 | | | | | | | | | | |

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Xaa Pro Gly Arg Thr Ser Xaa Thr Pro His Pro Ser Arg Arg Leu Thr
1 5 10 15

Gln Gly Arg Trp Val Arg Lys Ser Arg Val Ala Met Glu Lys Ile Pro
20 25 30

Val Ser Ala Phe Leu Leu Leu Val Ala Leu Ser Tyr Thr Leu Ala Arg
35 40 45

Asp Thr Thr Val Lys Pro Gly Ala Lys Lys Asp Thr Lys Asp Ser Arg
50 55 60

Pro Lys Leu Pro Gln Thr Leu Ser Arg Gly Trp Gly Asp Gln Leu Ile
65 70 75 80

5638

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Trp | Thr | Gln | Thr | Tyr | Glu | Glu | Ala | Leu | Tyr | Lys | Ser | Lys | Thr | Ser | Asn | |
| | | | | 85 | | | | | 90 | | | | | 95 | | |
| Lys | Pro | Leu | Met | Ile | Ile | His | His | Leu | Asp | Glu | Cys | Pro | His | Ser | Gln | |
| | | | | 100 | | | | | 105 | | | | | 110 | | |
| Ala | Leu | Lys | Lys | Val | Phe | Ala | Glu | Asn | Lys | Glu | Ile | Gln | Lys | Leu | Ala | |
| | | | | 115 | | | | | 120 | | | | | 125 | | |
| Glu | Gln | Phe | Val | Leu | Leu | Asn | Leu | Val | Tyr | Glu | Thr | Thr | Asp | Lys | His | |
| | | | | 130 | | | | | 135 | | | | | 140 | | |
| Leu | Ser | Pro | Asp | Gly | Gln | Tyr | Val | Pro | Arg | Ile | Met | Phe | Val | Asp | Pro | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| Ser | Leu | Thr | Val | Arg | Ala | Asp | Ile | Thr | Gly | Arg | Tyr | Ser | Asn | Arg | Leu | |
| | | | | 165 | | | | | 170 | | | | | 175 | | |
| Tyr | Ala | Tyr | Glu | Pro | Ala | Asp | Thr | Ala | Leu | Leu | Leu | Asp | Asn | Met | Lys | |
| | | | | 180 | | | | | 185 | | | | | 190 | | |
| Lys | Ala | Leu | Lys | Leu | Leu | Lys | Thr | Glu | Leu | | | | | | | |
| | | | | 195 | | | | | 200 | | | | | | | |

<210> 6386

<211> 251

<212> PRT

<213> Homo sapiens

<400> 6386

Arg Ser Gly Ser Leu Met Ala Ala Ala Ala Ala Thr Lys Ile Leu Leu
1 5 10 15

Cys Leu Pro Leu Leu Leu Leu Ser Gly Trp Ser Arg Ala Gly Arg
20 25 30

Ala Asp Pro His Ser Leu Cys Tyr Asp Ile Thr Val Ile Pro Lys Phe
35 40 45

Arg Pro Gly Pro Arg Trp Cys Ala Val Gln Gly Gln Val Asp Glu Lys
50 55 60

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Phe | Leu | His | Tyr | Asp | Cys | Gly | Asn | Lys | Thr | Val | Thr | Pro | Val | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

Pro Leu Gly Lys Lys Leu Asn Val Thr Thr Ala Trp Lys Ala Gln Asn
85 90 95

5639

Pro Val Leu Arg Glu Val Val Asp Ile Leu Thr Glu Gln Leu Arg Asp
 100 105 110

Ile Gln Leu Glu Asn Tyr Thr Pro Lys Glu Pro Leu Thr Leu Gln Ala
 115 120 125

Arg Met Ser Cys Glu Gln Lys Ala Glu Gly His Ser Ser Gly Ser Trp
 130 135 140

Gln Phe Ser Phe Asp Gly Gln Ile Phe Leu Leu Phe Asp Ser Glu Lys
 145 150 155 160

Arg Met Trp Thr Thr Val His Pro Gly Ala Arg Lys Met Lys Glu Lys
 165 170 175

Trp Glu Asn Asp Lys Val Val Ala Met Ser Phe His Tyr Phe Ser Met
 180 185 190

Gly Asp Cys Ile Gly Trp Leu Glu Asp Phe Leu Met Gly Met Asp Ser
 195 200 205

Thr Leu Glu Pro Ser Ala Gly Ala Pro Leu Ala Met Ser Ser Gly Thr
 210 215 220

Thr Gln Leu Arg Ala Thr Ala Thr Thr Leu Ile Leu Cys Cys Leu Leu
 225 230 235 240

Ile Ile Leu Pro Cys Phe Ile Leu Pro Gly Ile
 245 250

<210> 6387

<211> 241

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6387

Arg Asp Pro Pro Arg Pro Val Gln Ser Gly Leu Gly Ala Ala Gly Thr
 1 5 10 15

Leu Ser Trp Leu Pro Pro Pro Glu Gln Pro Val Leu Val Pro Arg Leu
 20 25 30

Pro Ala Pro Arg Pro Val Met Thr Leu Arg Pro Ser Leu Leu Pro Leu
 35 40 45

5640

His Leu Leu Leu Leu Leu Leu Leu Ser Ala Ala Val Cys Arg Ala Glu
 50 55 60
 Ala Gly Leu Glu Thr Glu Ser Pro Val Arg Thr Leu Gln Val Glu Thr
 65 70 75 80
 Leu Val Glu Pro Pro Glu Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp
 85 90 95
 Thr Leu His Ile His Tyr Thr Gly Ser Leu Val Asp Gly Arg Ile Ile
 100 105 110
 Asp Thr Ser Leu Thr Arg Asp Pro Leu Val Ile Glu Leu Gly Gln Lys
 115 120 125
 Gln Val Ile Pro Gly Leu Glu Gln Ser Leu Leu Asp Met Cys Val Gly
 130 135 140
 Glu Lys Arg Arg Ala Ile Ile Pro Ser His Leu Ala Tyr Gly Lys Arg
 145 150 155 160
 Gly Phe Pro Pro Ser Val Pro Ala Asp Ala Val Val Gln Tyr Asp Val
 165 170 175
 Glu Leu Ile Ala Leu Ile Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys
 180 185 190
 Gly Ile Leu Pro Leu Val Gly Met Ala Met Val Pro Xaa Ser Trp Ala
 195 200 205
 Ser Leu Gly Ile Thr Tyr Thr Glu Arg Pro Ile Asp Pro Lys Ser Pro
 210 215 220
 Lys Arg Ser Ser Arg Lys Arg Asn Glu Thr Arg Ala Lys Arg Asn Asn
 225 230 235 240
 Lys

<210> 6388

<211> 223

<212> PRT

<213> Homo sapiens

<400> 6388

Gly Phe Leu Leu His Pro Val Tyr Leu Leu Arg Val Ser Phe Pro Leu
 1 5 10 15

5641

Pro Thr Pro Ala Gly Gln Ser Trp Ala Pro Ala Pro Glu His Ser Arg
 20 25 30
 Ala Ala Arg Val Ser Arg Leu Glu Thr His Asp Thr Lys Glu Ile Gln
 35 40 45
 Val Lys Lys Tyr Lys Cys Gly Leu Ile Lys Pro Cys Pro Ala Asn Tyr
 50 55 60
 Phe Ala Phe Lys Ile Cys Ser Gly Ala Ala Asn Val Val Gly Pro Thr
 65 70 75 80
 Met Cys Phe Glu Asp Arg Met Ile Met Ser Pro Val Lys Asn Asn Val
 85 90 95
 Gly Arg Gly Leu Asn Ile Ala Leu Val Asn Gly Thr Thr Gly Ala Val
 100 105 110
 Leu Gly Gln Lys Ala Phe Asp Met Tyr Ser Gly Asp Val Met His Leu
 115 120 125
 Val Lys Phe Leu Lys Glu Ile Pro Gly Gly Ala Leu Val Leu Val Ala
 130 135 140
 Ser Tyr Asp Asp Pro Gly Thr Lys Met Asn Asp Glu Ser Arg Lys Leu
 145 150 155 160
 Phe Ser Asp Leu Gly Ser Ser Tyr Ala Lys Gln Leu Gly Phe Arg Asp
 165 170 175
 Ser Trp Val Phe Ile Gly Ala Lys Asp Leu Arg Gly Lys Ser Pro Phe
 180 185 190
 Glu Gln Phe Leu Lys Asn Ser Pro Asp Thr Asn Lys Tyr Glu Gly Trp
 195 200 205
 Pro Glu Leu Leu Glu Met Glu Gly Cys Met Pro Pro Lys Pro Phe
 210 215 220

<210> 6389

<211> 268

<212> PRT

<213> Homo sapiens

<400> 6389

Pro Gly Ser Asp Val Ala Phe His Phe Asn Pro Arg Phe Asp Gly Trp
 1 5 10 15

Asp Lys Val Val Phe Asn Thr Leu Gln Gly Gly Lys Trp Gly Ser Glu

5642

| 20 | | | | | 25 | | | | | 30 | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Arg | Lys | Arg | Ser | Met | Pro | Phe | Lys | Lys | Gly | Ala | Ala | Phe | Glu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Val | Phe | Ile | Val | Leu | Ala | Glu | His | Tyr | Lys | Val | Val | Val | Asn | Gly | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Pro | Phe | Tyr | Glu | Tyr | Gly | His | Arg | Leu | Pro | Leu | Gln | Met | Val | Thr | His |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Leu | Gln | Val | Asp | Gly | Asp | Leu | Gln | Leu | Gln | Ser | Ile | Asn | Phe | Ile | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Gly | Gln | Pro | Leu | Arg | Pro | Gln | Gly | Pro | Pro | Met | Met | Pro | Pro | Tyr | Pro |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Gly | Pro | Gly | His | Cys | His | Gln | Gln | Leu | Asn | Ser | Leu | Pro | Thr | Met | Glu |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Gly | Pro | Pro | Thr | Phe | Asn | Pro | Pro | Val | Pro | Tyr | Phe | Gly | Arg | Leu | Gln |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Gly | Gly | Leu | Thr | Ala | Arg | Arg | Thr | Ile | Ile | Ile | Lys | Gly | Tyr | Val | Pro |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Pro | Thr | Gly | Lys | Ser | Phe | Ala | Ile | Asn | Phe | Lys | Val | Gly | Ser | Ser | Gly |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Asp | Ile | Ala | Leu | His | Ile | Asn | Pro | Arg | Met | Gly | Asn | Gly | Thr | Val | Val |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Arg | Asn | Ser | Leu | Leu | Asn | Gly | Ser | Trp | Gly | Ser | Glu | Glu | Lys | Lys | Ile |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Thr | His | Asn | Pro | Phe | Gly | Pro | Gly | Gln | Phe | Phe | Asp | Leu | Ser | Ile | Arg |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Cys | Gly | Leu | Asp | Arg | Phe | Lys | Val | Tyr | Ala | Asn | Gly | Gln | His | Leu | Phe |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Asp | Phe | Ala | His | Arg | Leu | Ser | Ala | Phe | Gln | Arg | Val | Asp | Thr | Leu | Glu |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Ile | Gln | Gly | Asp | Val | Thr | Leu | Ser | Tyr | Val | Gln | Ile | | | | |
| | | | 260 | | | | | 265 | | | | | | | |

<210> 6390

<211> 279

5643

<212> PRT

<213> Homo sapiens

<400> 6390

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Pro Arg Val Arg Pro Arg Val Arg Trp Thr Ala Ala Met Arg Leu Thr
 1             5             10             15

Val Leu Cys Ala Val Cys Leu Leu Pro Gly Ser Leu Ala Leu Pro Leu
          20             25             30

Pro Gln Glu Ala Gly Gly Met Ser Glu Leu Gln Trp Glu Gln Ala Gln
          35             40             45

Asp Tyr Leu Lys Arg Phe Tyr Leu Tyr Asp Ser Glu Thr Lys Asn Ala
          50             55             60

Asn Ser Leu Glu Ala Lys Leu Lys Glu Met Gln Lys Phe Phe Gly Leu
          65             70             75             80

Pro Ile Thr Gly Met Leu Asn Ser Arg Val Ile Glu Ile Met Gln Lys
          85             90             95

Pro Arg Cys Gly Val Pro Asp Val Ala Glu Tyr Ser Leu Phe Pro Asn
          100            105            110

Ser Pro Lys Trp Thr Ser Lys Val Val Thr Tyr Arg Ile Val Ser Tyr
          115            120            125

Thr Arg Asp Leu Pro His Ile Thr Val Asp Arg Leu Val Ser Lys Ala
          130            135            140

Leu Asn Met Trp Gly Lys Glu Ile Pro Leu His Phe Arg Lys Val Val
          145            150            155            160

Trp Gly Thr Ala Asp Ile Met Ile Gly Phe Ala Arg Gly Ala His Gly
          165            170            175

Asp Ser Tyr Pro Phe Asp Gly Pro Gly Asn Thr Leu Ala His Ala Phe
          180            185            190

Ala Pro Gly Thr Gly Leu Gly Gly Asp Ala His Phe Asp Glu Asp Glu
          195            200            205

Arg Trp Thr Asp Gly Ser Ser Leu Gly Ile Asn Phe Leu Tyr Ala Ala
          210            215            220

Thr His Glu Leu Gly His Ser Leu Gly Met Gly His Ser Ser Asp Pro
          225            230            235            240

Asn Ala Val Met Tyr Pro Thr Tyr Gly Asn Gly Asp Pro Gln Asn Phe
          245            250            255

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5644

Lys Leu Ser Gln Asp Asp Ile Lys Gly Ile Gln Lys Leu Tyr Gly Lys
 260 265 270

Arg Ser Asn Ser Arg Lys Lys
 275

<210> 6391

<211> 245

<212> PRT

<213> Homo sapiens

<400> 6391

Leu Gln Phe Ser Arg Glu Glu Ala Gly Val Asp Leu Val Ser Pro Thr
 1 5 10 15

Pro Leu Thr Pro Pro Asp Pro Gly Ala Ala Ser Ala Thr Ala Thr Ala
 20 25 30

Pro Ala Pro Ala Ala Ala Arg Arg Gly Glu Ala Met Ala Lys Val Ser
 35 40 45

Val Leu Asn Val Ala Val Leu Glu Asn Pro Ser Pro Phe His Ser Pro
 50 55 60

Phe Arg Phe Glu Ile Ser Phe Glu Cys Ser Glu Ala Leu Ala Asp Asp
 65 70 75 80

Leu Glu Trp Lys Ile Ile Tyr Val Gly Ser Ala Glu Ser Glu Glu Phe
 85 90 95

Asp Gln Ile Leu Asp Ser Val Leu Val Gly Pro Val Pro Ala Gly Arg
 100 105 110

His Met Phe Val Phe Gln Ala Asp Ala Pro Asn Pro Ser Leu Ile Pro
 115 120 125

Glu Thr Asp Ala Val Gly Val Thr Val Val Leu Ile Thr Cys Thr Tyr
 130 135 140

His Gly Gln Glu Phe Ile Arg Val Gly Tyr Tyr Val Asn Asn Glu Tyr
 145 150 155 160

Leu Asn Pro Glu Leu Arg Glu Asn Pro Pro Met Lys Pro Asp Phe Ser
 165 170 175

Gln Leu Gln Arg Asn Ile Leu Ala Ser Asn Pro Arg Val Thr Arg Phe
 180 185 190

5645

His Ile Asn Trp Asp Asn Asn Met Asp Arg Leu Glu Ala Ile Glu Thr
 195 200 205

Gln Asp Pro Ser Leu Gly Cys Gly Leu Pro Leu Asn Cys Thr Pro Ile
 210 215 220

Lys Gly Leu Gly Leu Pro Gly Cys Ile Pro Gly Leu Leu Pro Glu Asn
 225 230 235 240

Ser Met Asp Cys Ile
 245

<210> 6392

<211> 472

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6392

Leu Lys Gly Glu Gln Gly Glu Arg Gly Gln Trp Pro Glu Arg Ala Leu
 1 5 10 15

Gly Thr Gly Gly Thr Leu Phe Phe Leu Pro Arg Gly Pro Trp Ala Asp
 20 25 30

Gly Ile Thr Gln Lys Asn Ala Arg Glu Ala Ala Phe Glu Lys Gly Ser
 35 40 45

His Tyr Pro Arg Ala Gln Thr Glu Arg Met Glu Leu Arg Lys Tyr Gly
 50 55 60

Pro Gly Arg Leu Ala Gly Thr Val Ile Gly Gly Ala Ala Gln Ser Lys
 65 70 75 80

Ser Gln Thr Lys Ser Asp Ser Ile Thr Lys Glu Phe Leu Pro Gly Leu
 85 90 95

Tyr Thr Ala Pro Ser Ser Pro Phe Pro Pro Ser Gln Val Ser Asp His
 100 105 110

5646

| | | | |
|---|-----|-----|-----|
| Gln Val Leu Asn Asp Ala Glu Val Ala Ala Leu Leu Glu Asn Phe Ser | 115 | 120 | 125 |
| Ser Ser Tyr Asp Tyr Gly Glu Asn Glu Ser Xaa Ser Cys Cys Thr Ser | 130 | 135 | 140 |
| Pro Pro Cys Pro Gln Asp Phe Ser Leu Asn Phe Asp Arg Ala Phe Leu | 145 | 150 | 155 |
| Pro Ala Leu Xaa Ser Leu Leu Phe Leu Leu Gly Leu Leu Gly Asn Gly | 165 | 170 | 175 |
| Ala Val Ala Ala Val Leu Leu Ser Arg Arg Thr Ala Leu Ser Ser Thr | 180 | 185 | 190 |
| Asp Thr Phe Leu Leu His Leu Ala Val Ala Asp Thr Leu Leu Val Leu | 195 | 200 | 205 |
| Thr Leu Pro Leu Trp Ala Val Asp Ala Ala Val Gln Trp Val Phe Gly | 210 | 215 | 220 |
| Ser Gly Leu Cys Lys Val Ala Gly Ala Leu Phe Asn Ile Asn Phe Tyr | 225 | 230 | 235 |
| Ala Gly Ala Leu Leu Leu Ala Cys Ile Ser Phe Asp Arg Tyr Leu Asn | 245 | 250 | 255 |
| Ile Val His Ala Thr Gln Leu Tyr Arg Arg Gly Pro Pro Ala Arg Val | 260 | 265 | 270 |
| Thr Leu Thr Cys Leu Ala Val Trp Gly Leu Cys Leu Leu Phe Ala Leu | 275 | 280 | 285 |
| Pro Asp Phe Ile Phe Leu Ser Ala His His Asp Glu Arg Leu Asn Ala | 290 | 295 | 300 |
| Thr His Cys Gln Tyr Asn Phe Pro Gln Val Gly Arg Thr Ala Leu Arg | 305 | 310 | 315 |
| Val Leu Gln Leu Val Ala Gly Phe Leu Leu Pro Leu Leu Val Met Ala | 325 | 330 | 335 |
| Tyr Cys Tyr Ala His Ile Leu Ala Val Leu Leu Val Ser Arg Gly Gln | 340 | 345 | 350 |
| Arg Arg Leu Arg Ala Met Arg Leu Val Val Val Val Val Val Ala Phe | 355 | 360 | 365 |
| Ala Leu Cys Trp Thr Pro Tyr His Leu Val Val Leu Val Asp Ile Leu | 370 | 375 | 380 |

5647

Met Asp Leu Gly Ala Leu Ala Arg Asn Cys Gly Arg Glu Ser Arg Val
 385 390 395 400

Asp Val Ala Lys Ser Val Thr Ser Gly Leu Gly Tyr Met His Cys Cys
 405 410 415

Leu Asn Pro Leu Leu Tyr Ala Phe Val Gly Val Lys Phe Arg Glu Arg
 420 425 430

Met Trp Met Leu Leu Leu Arg Leu Gly Cys Pro Asn Gln Arg Gly Leu
 435 440 445

Gln Arg Gln Pro Ser Ser Ser Arg Arg Asp Ser Ser Trp Ser Glu Thr
 450 455 460

Ser Glu Ala Ser Tyr Ser Gly Leu
 465 470

<210> 6393

<211> 231

<212> PRT

<213> Homo sapiens

<400> 6393

Ala Arg Glu Met Ala Ala Gln Gln Arg Asp Cys Gly Gly Ala Ala Gln
 1 5 10 15

Leu Ala Gly Pro Ala Ala Glu Ala Asp Pro Leu Gly Arg Phe Thr Cys
 20 25 30

Pro Val Cys Leu Glu Val Tyr Glu Lys Pro Val Gln Val Pro Cys Gly
 35 40 45

His Val Phe Cys Ser Ala Cys Leu Gln Glu Cys Leu Lys Pro Lys Lys
 50 55 60

Pro Val Cys Gly Val Cys Arg Ser Ala Leu Ala Pro Gly Val Arg Ala
 65 70 75 80

Val Glu Leu Glu Arg Gln Ile Glu Ser Thr Glu Thr Ser Cys His Gly
 85 90 95

Cys Arg Lys Asn Phe Phe Leu Ser Lys Ile Arg Ser His Val Ala Thr
 100 105 110

Cys Ser Lys Tyr Gln Asn Tyr Ile Met Glu Gly Val Lys Ala Thr Ile
 115 120 125

Lys Asp Ala Ser Leu Gln Pro Arg Asn Val Pro Asn Arg Tyr Thr Phe

5648

130 135 140
 Pro Cys Pro Tyr Cys Pro Glu Lys Asn Phe Asp Gln Glu Gly Leu Val
 145 150 155 160
 Glu His Cys Lys Leu Phe His Ser Thr Asp Thr Lys Ser Val Val Cys
 165 170 175
 Pro Ile Cys Ala Ser Met Pro Trp Gly Asp Pro Asn Tyr Arg Ser Ala
 180 185 190
 Asn Phe Arg Glu His Ile Gln Arg Arg His Arg Phe Ser Tyr Asp Thr
 195 200 205
 Phe Val Asp Tyr Asp Val Asp Glu Glu Asp Met Met Asn Gln Val Leu
 210 215 220
 Gln Arg Ser Ile Ile Asp Gln
 225 230

 <210> 6394
 <211> 625
 <212> PRT
 <213> Homo sapiens

 <400> 6394
 Ala Val Arg Leu Pro Ala Ala Tyr Ile Lys Ala Pro Gly His Ala Glu
 1 5 10 15
 Pro Ser Ser Arg Thr Arg Pro Thr Thr Met Arg Ser Cys Leu Trp Arg
 20 25 30
 Cys Arg His Leu Ser Gln Gly Val Gln Trp Ser Leu Leu Leu Ala Val
 35 40 45
 Leu Val Phe Phe Leu Phe Ala Leu Pro Ser Phe Ile Lys Glu Pro Gln
 50 55 60
 Thr Lys Pro Ser Arg His Gln Arg Thr Glu Asn Ile Lys Glu Arg Ser
 65 70 75 80
 Leu Gln Ser Leu Ala Lys Pro Lys Ser Gln Ala Pro Thr Arg Ala Arg
 85 90 95
 Arg Thr Thr Ile Tyr Ala Glu Pro Val Pro Glu Asn Asn Ala Leu Asn
 100 105 110
 Thr Gln Thr Gln Pro Lys Ala His Thr Thr Gly Asp Arg Gly Lys Glu
 115 120 125

5649

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Ala | Asn | Gln | Ala | Pro | Pro | Glu | Glu | Gln | Asp | Lys | Val | Pro | His | Thr | Ala | |
| 130 | | | | | | 135 | | | | | 140 | | | | | |
| Gln | Arg | Ala | Ala | Trp | Lys | Ser | Pro | Glu | Lys | Glu | Lys | Thr | Met | Val | Asn | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| Thr | Leu | Ser | Pro | Arg | Gly | Gln | Asp | Ala | Gly | Met | Ala | Ser | Gly | Arg | Thr | |
| | | | | 165 | | | | | 170 | | | | | 175 | | |
| Glu | Ala | Gln | Ser | Trp | Lys | Ser | Gln | Asp | Thr | Lys | Thr | Thr | Gln | Gly | Asn | |
| | | | | 180 | | | | | 185 | | | | | 190 | | |
| Gly | Gly | Gln | Thr | Arg | Lys | Leu | Thr | Ala | Ser | Arg | Thr | Val | Ser | Glu | Lys | |
| | | | | 195 | | | | | 200 | | | | | 205 | | |
| His | Gln | Gly | Lys | Ala | Ala | Thr | Thr | Ala | Lys | Thr | Leu | Ile | Pro | Lys | Ser | |
| | | | | 210 | | | | | 215 | | | | | 220 | | |
| Gln | His | Arg | Met | Leu | Ala | Pro | Thr | Gly | Ala | Val | Ser | Thr | Arg | Thr | Arg | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | |
| Gln | Lys | Gly | Val | Thr | Thr | Ala | Val | Ile | Pro | Pro | Lys | Glu | Lys | Lys | Pro | |
| | | | | 245 | | | | | 250 | | | | | 255 | | |
| Gln | Ala | Thr | Pro | Pro | Pro | Ala | Pro | Phe | Gln | Ser | Pro | Thr | Thr | Gln | Arg | |
| | | | | 260 | | | | | 265 | | | | | 270 | | |
| Asn | Gln | Arg | Leu | Lys | Ala | Ala | Asn | Phe | Lys | Ser | Glu | Pro | Arg | Trp | Asp | |
| 275 | | | | | 280 | | | | | 285 | | | | | | |
| Phe | Glu | Glu | Lys | Tyr | Ser | Phe | Glu | Ile | Gly | Gly | Leu | Gln | Thr | Thr | Cys | |
| 290 | | | | | 295 | | | | | 300 | | | | | | |
| Pro | Asp | Ser | Val | Lys | Ile | Lys | Ala | Ser | Lys | Ser | Leu | Trp | Leu | Gln | Lys | |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 | |
| Leu | Phe | Leu | Pro | Asn | Leu | Thr | Leu | Phe | Leu | Asp | Ser | Arg | His | Phe | Asn | |
| | | | | 325 | | | | | 330 | | | | | 335 | | |
| Gln | Ser | Glu | Trp | Asp | Arg | Leu | Glu | His | Phe | Ala | Pro | Pro | Phe | Gly | Phe | |
| | | | | 340 | | | | | 345 | | | | | 350 | | |
| Met | Glu | Leu | Asn | Tyr | Ser | Leu | Val | Gln | Lys | Val | Val | Thr | Arg | Phe | Pro | |
| 355 | | | | | 360 | | | | | 365 | | | | | | |
| Pro | Val | Pro | Gln | Gln | Gln | Leu | Leu | Leu | Ala | Ser | Leu | Pro | Ala | Gly | Ser | |
| 370 | | | | | 375 | | | | | 380 | | | | | | |
| Leu | Arg | Cys | Ile | Thr | Cys | Ala | Val | Val | Gly | Asn | Gly | Gly | Ile | Leu | Asn | |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 | |

5650

```

Asn Ser His Met Gly Gln Glu Ile Asp Ser His Asp Tyr Val Phe Arg
      405                      410                      415

Leu Ser Gly Ala Leu Ile Lys Gly Tyr Glu Gln Asp Val Gly Thr Arg
      420                      425                      430

Thr Ser Phe Tyr Gly Phe Thr Ala Phe Ser Leu Thr Gln Ser Leu Leu
      435                      440                      445

Ile Leu Gly Asn Arg Gly Phe Lys Asn Val Pro Leu Gly Lys Asp Val
      450                      455                      460

Arg Tyr Leu His Phe Leu Glu Gly Thr Arg Asp Tyr Glu Trp Leu Glu
      465                      470                      475                      480

Ala Leu Leu Met Asn Gln Thr Val Met Ser Lys Asn Leu Phe Trp Phe
      485                      490                      495

Arg His Arg Pro Gln Glu Ala Phe Arg Glu Ala Leu His Met Asp Arg
      500                      505                      510

Tyr Leu Leu Leu His Pro Asp Phe Leu Arg Tyr Met Lys Asn Arg Phe
      515                      520                      525

Leu Arg Ser Lys Thr Leu Asp Gly Ala His Trp Arg Ile Tyr Arg Pro
      530                      535                      540

Thr Thr Gly Ala Leu Leu Leu Leu Thr Ala Leu Gln Leu Cys Asp Gln
      545                      550                      555                      560

Val Ser Ala Tyr Gly Phe Ile Thr Glu Gly His Glu Arg Phe Ser Asp
      565                      570                      575

His Tyr Tyr Asp Thr Ser Trp Lys Arg Leu Ile Phe Tyr Ile Asn His
      580                      585                      590

Asp Phe Lys Leu Glu Arg Glu Val Trp Lys Arg Leu His Asp Glu Gly
      595                      600                      605

Ile Ile Arg Leu Tyr Gln Arg Pro Gly Pro Gly Thr Ala Lys Ala Lys
      610                      615                      620

Asn
625

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<210> 6395

<211> 165

<212> PRT

5651

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6395

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Gln | Xaa | Xaa | Pro | Met | Ile | Thr | Pro | Ser | Ser | Asn | Thr | Thr | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Arg | Xaa | Leu | Leu | Val | Arg | Leu | Gln | Val | Pro | Val | Arg | Asn | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Asp | Pro | Arg | Val | Arg | Phe | Ser | Ser | Asp | Lys | Thr | Ala | Leu | Val | Gln |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Phe | Met | Leu | Ser | Glu | Gln | Ile | Val | Tyr | Leu | Cys | Leu | Ser | Ile | Cys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gln | Gly | Gly | Cys | Leu | Gln | Thr | Phe | Asp | Gln | Asp | Ile | His | Leu | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Leu | Val | Phe | Phe | Phe | Tyr | Cys | Cys | Phe | Phe | Leu | Arg | Gln | Arg | Phe |
| | | | 85 | | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Ser | Pro | Arg | Leu | Glu | Cys | Cys | Gly | Val | Ile | Leu | Ala | His | Cys |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Arg | Leu | Pro | Gly | Ser | Ser | Asn | Phe | Pro | Ala | Ser | Ala | Ser | Arg |
| | | | 115 | | | | | 120 | | | | | 125 | | |

5652

Val Pro Gly Thr Ile Cys Ala His His His Ala Trp Leu Ile Phe Cys
130 135 140

Ile Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Leu Gly Trp Ser Arg
145 150 155 160

Thr Pro Asn Leu Lys
165

<210> 6396

<211> 35

<212> PRT

<213> Homo sapiens

<400> 6396

Phe Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn Cys Leu Asn Pro Gly
1 5 10 15

Asp Gly Gly Cys Ser Asp Pro Arg Ser Cys Gln Cys Thr Pro Ala Trp
20 25 30

Val Thr Glu
35

<210> 6397

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5653

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6397

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Pro | Gln | Met | Gln | Pro | Gly | Gly | Val | Gln | Ala | Pro | Xaa | Ile | Gln | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Leu | Ala | Pro | Xaa | Pro | Gly | Gly | Ile | Ser | Pro | Gln | Thr | Gly | Gly | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Ile | Gln | Xaa | Xaa | Xaa | Ile |
| | | | | | 35 |

<210> 6398

<211> 53

<212> PRT

<213> Homo sapiens

<400> 6398

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ala | Glu | Leu | Trp | Ala | Glu | Glu | Tyr | Ala | His | Val | Val | Leu | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ala | Asp | Ile | Asp | Leu | Thr | Lys | Arg | Ala | Gly | Glu | Leu | Thr | Glu | Asp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Glu | Arg | Val | Ile | Thr | Ile | Met | Gln | Asn | Pro | Arg | His | Thr | Arg |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Ser | Gln | Thr | Gly | Ser |
| | | | | 50 |

<210> 6399

<211> 54

<212> PRT

<213> Homo sapiens

<400> 6399

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Pro | Val | Pro | Ser | Leu | Ala | Gly | Ile | Met | Gln | Arg | Thr | Phe |
| 1 | | | | 5 | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Trp | Leu | Leu | Asp | Arg | Val | Gln | His | Leu | Gly | Ala | Pro | Val | Thr | Leu |
| | | | 20 | | | | 25 | | | | | | 30 | | |

5654

Arg Ala Ser Tyr Leu Glu Ile Tyr Asn Glu Gln Val Ser Ala Val Glu
35 40 45

Gly Thr Gln Pro Thr Pro
50

<210> 6400
<211> 73
<212> PRT
<213> Homo sapiens

<400> 6400
Gly Lys Ile Asp Pro Asp Gln Thr Val Ile Arg Ala Glu Ser Leu Asp
1 5 10 15

Gly Gly Asp Thr Ser Ser Thr Val Val Glu Ser Gln Glu Gly Leu Ser
20 25 30

Gly Thr His Val Pro Glu Ser Ser Asp Cys Cys Glu Gly Phe Ile Asn
35 40 45

Thr Phe Ser Ser Asn Asp Met Asp Gly Gln Asp Leu Asp Tyr Phe Asn
50 55 60

Ile Asp Glu Arg Ala Lys Met Ala His
65 70

<210> 6401
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

5655

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (87)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6401
 Glu Ser Xaa Trp Lys Thr Xaa His Tyr Ser Xaa Ser Trp Tyr Xaa Cys
 1 5 10 15

Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Pro Gly
 20 25 30

Thr Ser Thr Asn Gly Lys Xaa Leu Ala Ala Thr Ala Pro Thr Pro Gly
 35 40 45

5656

```

Ile Pro Ile Leu Gln Xaa Xaa Pro Ser Ala Pro Pro Pro Lys Ala Gln
  50                      55                      60

Xaa Val Ser Pro Val Gln Ala Pro Pro Pro Gly Gly Ser Xaa Gln Leu
  65                      70                      75                      80

Leu Pro Gly Lys Val Leu Xaa Pro Leu Ala Xaa Pro Ser Met Ser Val
                      85                      90                      95

Arg Gly Gly Gly Ala
      100

```

<210> 6402

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5657

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6402

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asn | Tyr | Tyr | Leu | Lys | Phe | Ser | Val | Val | Ser | Asp | Lys | Asn | His | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Phe | Gly | Ala | Ile | Thr | Xaa | Ala | Met | Gly | Ile | Arg | Phe | Lys | Ser | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Ser | Asn | Leu | Val | Arg | Thr | Leu | Met | Val | Asp | Pro | Ser | Gln | Glu | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Glu | Asn | Tyr | Asn | Phe | Xaa | Leu | Gln | Leu | Gln | Glu | Glu | Leu | Leu | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Leu | Arg | His | Gly | Glu | Lys | Ile | Cys | Asp | Xaa | Tyr | Asn | Ala | Xaa | Met |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Val | Val | Lys | Lys | Xaa | Lys | Pro | Glu | Leu | Xaa | Asn | Xaa | Asn | Tyr | Xaa |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Pro | Arg | Val | Arg | Asp | Gly | Asn |
| | | | | | | | 100 |

<210> 6403

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

5658

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6403
Pro Gly Xaa Glu Xaa Xaa Pro Thr Val Xaa Gln Val Glu Xaa Ala Ala
1 5 10 15
His Ser Ile Gln Val Glu Lys Ala Ala His Ser Ile Gln Val Glu Glu
20 25 30
Gly Ser Pro Gln Xaa Ser Arg Val Arg Arg Gln Pro Thr Gly Ile Gln
35 40 45
Gly Glu Glu Gly Cys Pro Gln Ala Ser Arg Val Arg Lys Ala Ala His
50 55 60
Arg His Pro Xaa
65

<210> 6404
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5659

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6404

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Glu | Asp | Pro | Leu | Arg | Ser | Cys | Cys | Leu | Val | Ala | Ala | Asp | Ala | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Pro | Glu | Gly | Ala | Gly | Ser | Asp | Ser | Gly | Asp | Ser | Pro | Ala | Ser | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Ser | Ser | Ser | Glu | Asp | Ser | Glu | Gln | Arg | Gly | Val | Gly | Ala | Gly | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Glu | Glu | Gly | Ala | Pro | Pro | Ala | Thr | Ser | Ala | Glu | Arg | Thr | Asn | Gly |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Asp | Xaa | Ala | Trp | Ala | Phe | Leu | Thr | Phe | Thr | Xaa | Thr | Leu | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Arg | Ser | Arg | Xaa | Ser | Arg | Xaa |
| | | | | 85 | | | |

<210> 6405

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6405

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Phe | Tyr | Met | Asn | Ser | Tyr | Phe | Phe | Leu | Asp | Asn | Met | Leu | Ile | Phe |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asp | Phe | Thr | Asn | Leu | Gln | His | Met | Gly | Asp | Phe | Gly | Ser | Ile | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

5660

Arg Pro Gly Ile Val Val Asp Tyr Gln Asn Lys Ser Thr Asn Val Thr
 35 40 45

Val Ala Ala Ala Arg Gly Ile Xaa Arg Lys Met Met Gln Pro Phe Asn
 50 55 60

Lys Pro Ser Gly Thr Phe Ile Lys Asn Pro Asn
 65 70 75

<210> 6406

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6406

Ala Leu Ser Gln Ile Thr Leu Arg Lys Ser Val Glu Ser Ala Leu Arg
 1 5 10 15

Gln Leu Glu Arg Glu Lys Ala Leu Leu Gln His Lys Asn Ala Glu Tyr
 20 25 30

Gln Arg Lys Ala Asp His Glu Ala Asp Xaa Lys Arg Xaa Leu Glu Asn
 35 40 45

Asp Gly Leu Xaa Xaa Arg Ile Leu Asn Thr His Gln Glu Lys
 50 55 60

5661

<210> 6407

<211> 48

<212> PRT

<213> Homo sapiens

<400> 6407

Arg Gln Ser Gln Leu Ala Gln Asp Glu Arg Val Ser Arg Ser Tyr Leu
 1 5 10 15

Ala Leu Ala Thr Glu Thr Val Asp Met Phe His Ile Leu Pro Gln Ser
 20 25 30

Asn Val Ser Pro Arg Ala Arg Phe Cys Ser Met Lys Val Trp Ser Leu
 35 40 45

<210> 6408

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6408

Gly Thr Ser Met Asp Val Ile Ser Ile Asp Lys Thr Gly Glu Asn Phe
 1 5 10 15

Arg Leu Ile Tyr Asp Thr Lys Gly Arg Phe Ala Val His Arg Ile Thr
 20 25 30

Pro Glu Glu Ala Lys Tyr Lys Leu Cys Lys Val Arg Lys Ile Phe Xaa
 35 40 45

Gly Thr Lys Gly Ile Pro His Leu Val Thr His Asp Ala Arg Thr Ile
 50 55 60

Arg Tyr Pro Asp Pro Leu Ile Lys Val Asn Asp Thr Ile Gln Ile Asp
 65 70 75 80

Leu Glu Thr Gly Lys Ile Thr Asp Phe Ile Lys Phe Asp Thr Gly Asn
 85 90 95

Leu Cys Met Val Thr Trp Arg Cys
 100

5662

<210> 6409

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6409

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ser | Leu | Pro | Ala | Val | Phe | Pro | Gly | Gln | Val | Arg | Arg | Thr | Leu | Phe |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Thr | Gly | Leu | Pro | Arg | Asp | Ala | Arg | Lys | Glu | Thr | Xaa | Glu | Ser | His |
| | | 20 | | | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Arg | Asp | Ala | Tyr | Pro | Thr | Cys | Lys | Val | Val | Asp | Val | Gln | Leu | Xaa |
| | 35 | | | | | | 40 | | | | 45 | | | | |

Tyr

<210> 6410

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

5663

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6410

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Glu | Ile | Xaa | Arg | Ser | Phe | His | Leu | Val | Ile | Ser | Thr | Glu | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Pro | Pro | Thr | Met | Glu | Phe | Gly | Pro | Ser | Trp | Val | Phe | Leu | Val | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Leu | Lys | Gly | Val | His | Cys | Glu | Val | Gln | Leu | Val | Glu | Ser | Gly | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Val | Gln | Pro | Gly | Arg | Ser | Leu | Arg | Leu | Ser | Cys | Thr | Thr | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Phe | Thr | Phe | Gly | Asp | Tyr | Ser | Met | Ser | Trp | Val | Arg | Gln | Ala | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Gly | Leu | Glu | Trp | Val | Gly | Phe | Ile | Arg | Ser | Lys | Ala | His | Gly |
| | | | 85 | | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Thr | Glu | Tyr | Ala | Ala | Ser | Val | Lys | Arg | Gln | Ile | His | His | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Glu | Met | Ile | Pro | Gln | Ala | Ser | Xaa | Ile | Trp | Gln | Met | Asn | Ser | Leu |
| | | 115 | | | | | | 120 | | | | 125 | | | |

5664

Lys Pro Arg Thr Gln Thr Leu Leu Leu Ser Arg His Asp Tyr Arg His
 130 135 140

Thr Pro Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Xaa Phe Ser Gly
 145 150 155 160

Phe His Gln Gly Pro Ser Ser Ser Pro Trp Xaa Pro Cys Ser Arg Xaa
 165 170 175

Thr Ser Glu Xaa Gln Xaa Pro Gly Leu Ala Gly Gln Gly Leu Xaa
 180 185 190

<210> 6411

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6411

Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Xaa Ala Leu Glu Leu
 1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Ser Phe Gln Ile
 20 25 30

Lys Asn Trp Leu Pro Phe Phe Val Arg Val Ser Asp Ala Ala Thr His
 35 40 45

Ser Ala Pro Gln Asn Ser
 50

<210> 6412

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5665

<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6412
Xaa Xaa Xaa Thr Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser
1 5 10 15
Thr Cys Gly Ala Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg
20 25 30
Asn Ser Ala Arg Gly Gly Ala Pro Val Met Leu Ser Thr Leu Gln Met
35 40 45
Cys Cys Leu Ser His
50

<210> 6413
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5666

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6413

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser | Thr | Ala | Val | Xaa | Ala |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Xaa | Ser | Ala | Arg | Ala |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Xaa | Gly | Pro | Leu | Gln | Pro | Cys | Arg | Ile | Lys | Thr | Arg | Arg | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Asn | His | Gln | Lys | Gln | Gly | Arg | Val | Glu | Lys | Val | Gln | Lys | Lys | Asp |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | |
|-----|-----|-----|
| Lys | Thr | Gln |
| 65 | | |

<210> 6414

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6414

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser | Thr | Ala | Val |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn | Ser | Ala |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5667

20 25 30
 Arg Gly Gly Ile Val Cys Leu Leu Leu Met Asn Leu Gln Trp Leu Gln
 35 40 45

Asn Asp
 50

<210> 6415

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6415

Xaa Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
 1 5 10 15

Thr Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
 20 25 30

Arg Ala Thr Thr Gly Glu Ser Ile His Gln Val Thr Glu Phe Leu Gln
 35 40 45

Arg Gly His Tyr
 50

<210> 6416

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5668

<221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6416
 Xaa Asn Lys Xaa Xaa Xaa Ser Thr Ala Val Xaa Ala Ala Leu Glu Leu
 1 5 10 15
 Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Val Leu Phe Ser
 20 25 30
 Ile Met Asn Ser Trp Leu Arg
 35

<210> 6417
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6417
 Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala
 1 5 10 15
 Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
 20 25 30
 Gly Arg Leu Met Met Thr Phe Ser Gln Val Leu Gly Lys Lys Leu Lys
 35 40 45

5669

Leu Leu Leu
50

<210> 6418

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6418

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Leu | Ile | Lys | Gly | Thr | Lys | Ser | Trp | Xaa | Ser | Thr | Ala | Val | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn | Ser | Ala | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Asp | Ile | Glu | Thr | Ser | Val | Ile |
| | | 35 | | | | | 40 |

<210> 6419

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6419

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Xaa | Asn | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser | Thr | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Ala | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn | Ser |
| | | | | 20 | | | | 25 | | | | | 30 | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Gly | Leu | Ile | Ser | Ser | His | Leu |
| | | | 35 | | | | | 40 |

5670

<210> 6420
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6420
Xaa Ser Xaa Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
1 5 10 15
Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
20 25 30
Arg Ala Phe Gly Phe
35

<210> 6421
<211> 29
<212> PRT
<213> Homo sapiens

<400> 6421
Lys Asn His Lys Pro Ser Val Leu Leu Gly Phe Asp Met Ser Glu Leu
1 5 10 15
Lys Asn Val Lys His Arg Leu Asn Phe Glu Tyr Glu Pro
20 25

<210> 6422
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

5671

<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6422
Ala Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg His Pro Ala
1 5 10 15
Glu Asn Gly Lys Ser Asn Phe Leu Asn Cys Tyr Val Ser Gly Phe His
20 25 30
Pro Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly Glu Arg Ile Glu
35 40 45
Lys Val Glu His Ser Asp Leu Ser Phe Ser Lys Asp Trp Leu Ser Ile
50 55 60
Ser Xaa Thr Thr Leu Asn Ser Pro Pro Leu Lys Lys Met Ser Met Pro
65 70 75 80
Ala Xaa Xaa Thr Met
85

<210> 6423
<211> 172
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5672

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6423

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gln | Ser | Lys | Val | Leu | Tyr | Ile | Thr | Ser | Asn | Pro | Met | Ser | Leu | Cys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ala | Ser | Arg | His | Gln | Pro | Asn | Val | Asn | Asp | Leu | Leu | Val | His | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Leu | Gln | Pro | Arg | Asn | Leu | Ser | Leu | Met | Asp | Lys | Leu | Leu | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asp | Asp | Lys | Leu | Leu | Met | Arg | Pro | Gly | Ser | Ser | Thr | Ile | Leu | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Arg | Asn | Trp | Pro | Asn | Arg | Ala | Val | Glu | Phe | Ser | Thr | Ser | Ser | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Tyr | Thr | Val | Gln | Ser | Thr | Arg | Arg | Arg | Asn | Pro | Pro | Pro | Arg | Thr |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | His | Pro | Ile | Ser | Thr | Xaa | His | Ser | Cys | Ala | Glu | Thr | Pro | Gly | Ser |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Glu | Glu | Ile | Leu | Arg | Gly | Ala | Arg | Val | Pro | Xaa | Ala | Pro | Asp | Ser |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Phe | Ser | Leu | Thr | Asp | Ala | Pro | Glu | Leu | Lys | Leu | Ile | Cys | Tyr |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Leu | Leu | Gly | Thr | Ala | Glu | Val | Xaa | Thr | Cys | Asp | His | Cys | Xaa | Gly |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Arg | Asp | Lys | Met | Asn | Pro | Gln | Trp | Xaa | Leu | Xaa |
| | | | 165 | | | | | 170 | | | |

5673

<210> 6424
 <211> 129
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (104)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (109)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (124)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6424
 Phe Gly Thr Ser Ile Glu Val Arg Asn Tyr Ser Arg Leu Lys Pro Gly
 1 5 10 15
 Tyr Arg Trp Glu Arg Gln Leu Val Phe Arg Ser Lys Leu Thr Met His
 20 25 30
 Thr Ala Phe Asn Arg Lys Asp Asn Ala His Pro Ala Glu Val Thr Ala
 35 40 45
 Leu Gly Ile Ser Lys Asp His Ser Arg Ile Leu Val Gly Asp Ser Arg
 50 55 60

5674

Gly Arg Val Phe Ser Trp Ser Val Ser Asp Gln Pro Gly Arg Ser Ala
 65 70 75 80

Ala Asp His Trp Val Lys Asp Glu Gly Gly Asp Ser Cys Ser Gly Cys
 85 90 95

Ser Val Arg Phe Ser Leu Thr Xaa Xaa Arg His His Xaa Arg Asn Xaa
 100 105 110

Gly Ser Ala Leu Leu Pro Glu Val His Arg Phe Xaa Ser Glu Xaa Asn
 115 120 125

Val

<210> 6425

<211> 118

<212> PRT

<213> Homo sapiens

<400> 6425

Asp Glu Leu Ser Glu Ala Leu Leu Leu Ile Lys Ala Gln Lys Glu Gln
 1 5 10 15

Lys Asn Gly Asp Leu Ser Phe Leu Val Lys Val Asp Ser Glu Ile Asn
 20 25 30

Lys Asp Leu Glu Arg Ser Met Arg Glu Leu Gln Ala Thr His Ala Glu
 35 40 45

Thr Val Gln Glu Leu Glu Lys Thr Arg Asn Met Leu Ile Met Gln His
 50 55 60

Lys Ile Asn Lys Asp Tyr Gln Met Glu Val Glu Ala Val Thr Arg Lys
 65 70 75 80

Met Glu Asn Leu Gln Gln Asp Tyr Glu Leu Lys Val Glu Gln Tyr Val
 85 90 95

His Leu Leu Asp Ile Arg Ala Ala Arg Ile His Lys Leu Glu Glu Ala
 100 105 110

Val Ser Leu Gly Ser Ile
 115

<210> 6426

<211> 51

5675

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6426
Glu Arg Gly Gly Xaa Val Asn Leu Leu Lys Leu Val Pro Cys Xaa Tyr
1 5 10 15
Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Val Gln Asp Gly Ala
20 25 30
Thr Gly Ala Gly Leu Ser Ala His Gln Ala Arg Pro Ile Leu Arg Pro
35 40 45
Val Xaa Xaa
50

<210> 6427
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)

5676

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6427

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Leu | Leu | Ala | Leu | Leu | Cys | Ala | Ser | Ala | Ser | Gly | Asn | Ala | Ile |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ala | Arg | Ser | Ser | Ser | Tyr | Ser | Gly | Glu | Tyr | Gly | Gly | Gly | Gly | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Xaa | Phe | Xaa | His | Ser | Gly | Asn | Gln | Leu | Asp | Gly | Pro | Ile | Thr | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Arg | Val | Arg | Val | Asn | Thr | Tyr | Tyr | Ile | Val | Gly | Leu | Gln | Val | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Gly | Lys | Val | Trp | Ser | Asp | Tyr | Val | Gly | Gly | Arg | Asn | Gly | Asp | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Glu | Ile | Phe | Leu | Xaa | Pro | Gly | Glu | Ser | Val | Ile | Gln | Val | Ser | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Tyr | Lys | Trp | Tyr | Leu | Lys | Glu | Ala | Gly | Ile | Xaa |
| | | 100 | | | | | 105 | | | | |

<210> 6428

<211> 89

<212> PRT

<213> Homo sapiens

<220>

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<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

5677

<220>
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 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (79)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6428
 Pro Phe Ser Val Pro Gln Pro Leu Ala Met Pro Phe Arg Pro Gly Leu
 1 5 10 15
 Pro Pro Ile Val Glu Ser Met Xaa Val Val Val Glu Thr Ile Leu Ser
 20 25 30
 Phe Trp Gln Pro Val Gly Arg Pro Ile Thr Ala Leu Arg Val Arg Xaa
 35 40 45
 Asn Thr Tyr Tyr Ile Xaa Gly Leu Gln Val Ala Tyr Gly Gln Gly Xaa
 50 55 60
 Glu Xaa Thr Ile Xaa Val Cys Ser Pro Thr Gly Lys Pro Gly Xaa Lys
 65 70 75 80
 Ile Phe Ser Cys Pro Pro Trp Gly Asn
 85

5678

<210> 6429
 <211> 181
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (132)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (164)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (176)
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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (181)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6429
 Phe Phe Ser Ile Met Phe Thr Pro Leu Asp Arg Tyr Xaa Asp Arg Asn
 1 5 10 15
 Met Gln Ile Asn Arg His Gln Tyr Cys Ala Leu Lys Ala Met Ser Ala
 20 25 30
 Val Leu Cys Cys Gly Pro Val Ala Asp Asn Val Gly Leu Ser Ser Asp
 35 40 45
 Gly Tyr Leu Tyr Lys Trp Leu Asp Asn Ile Leu Asp Ser Leu Asp Lys
 50 55 60
 Lys Val His Gln Leu Gly Cys Glu Ala Val Thr Leu Leu Leu Glu Leu
 65 70 75 80

5679

Asn Pro Asp Gln Ser Asn Leu Met Tyr Trp Ala Val Asp Arg Cys Tyr
 85 90 95
 Thr Gly Ser Gly Arg Val Ala Ala Gly Cys Phe Lys Ala Ile Ala Asn
 100 105 110
 Val Phe Gln Asn Arg Asp Tyr Gln Cys Asp Thr Val Met Leu Leu Asn
 115 120 125
 Leu Ile Leu Xaa Lys Ala Ala Asp Ser Ser Arg Ser Ile Tyr Glu Val
 130 135 140
 Ala Met Gln Leu Leu Gln Ile Leu Glu Pro Lys Met Phe Arg Tyr Ala
 145 150 155 160
 His Lys Leu Xaa Val Gln Arg Thr Glu Trp Arg Thr His Pro Val Xaa
 165 170 175
 Pro Xaa His Asn Xaa
 180

<210> 6430

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6430

Gly Arg Val Xaa Gly Arg Val Gly Gly Ala Val Phe Gln Ile Tyr Ile
 1 5 10 15
 Ile Lys Asp Leu Glu Lys Leu Leu Met Ile Ala Gly Glu Glu Arg Ala
 20 25 30
 Leu Cys Leu Val Asp Val Lys Lys Val Lys Gln Ser Leu Ala Gln Ser
 35 40 45
 His Leu Pro Ala Gln Pro Asp Ile Ser Pro Asn Ile Phe Glu Ala Val
 50 55 60
 Lys Gly Cys His Leu Phe Gly Ala Gly Gln Glu Leu Arg Thr
 65 70 75

5680

<210> 6431
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (30)
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5681

<221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (57)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6431
 Gly Phe Cys Arg Ser Ser Thr Leu Xaa Gln His Xaa Arg Val His Xaa
 1 5 10 15

 Gly Glu Arg Pro Tyr Lys Cys Asp Asp Cys Xaa Lys Ala Xaa Ser Xaa
 20 25 30

 Ser Ser Asp Leu Ile Arg His Gln Xaa Thr His Xaa Xaa Asp Xaa Xaa
 35 40 45

 Xaa Pro Gly Ala Pro Ala Trp Val Xaa Gly Val Gly Arg Arg
 50 55 60

 <210> 6432
 <211> 72
 <212> PRT
 <213> Homo sapiens

 <400> 6432
 Glu Leu Arg Cys Ser Leu Gln Leu Ala Glu Thr Glu Arg Glu Gly Gly
 1 5 10 15

 Phe Ser Pro His Ile Ser Pro Phe Thr Ala Val Asn Asp Leu Gly His
 20 25 30

 Leu Leu Gly Arg Ala Gly Phe Asn Thr Leu Thr Val Asp Thr Asp Glu
 35 40 45

 Ile Gln Val Asn Tyr Pro Gly Met Phe Glu Leu Met Glu Asp Leu Gln
 50 55 60

5682

Glu Gln Lys Ser Arg Met Leu Thr
65 70

<210> 6433

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

5683

<400> 6433

```

Xaa Xaa Lys Leu Pro Xaa Glu Gly Pro Leu Gly Arg Leu Xaa Val Pro
 1              5              10              15

Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Pro Arg Val Arg Pro
          20              25              30

Arg Val Arg Glu Phe Arg Lys Ala Lys Ala Ser Ser Thr Gly Ser Phe
          35              40              45

Thr Ala Pro Asp Pro Gly Leu Lys Arg Lys Ser Pro Pro Glu Ala Leu
          50              55              60

Ser Gly Ser Leu Pro Pro Ala Thr Thr Cys Pro Ala Ser Ser Thr Pro
          65              70              75              80

Ala Pro Thr Ile Ile Pro Ala Pro Ala Ala Pro Gly Lys Pro Ala Ser
          85              90              95

Ala Ala Thr Val Lys Arg Lys Arg Lys Ser Arg Trp Gly Pro Glu Glu
          100              105              110

Asp Lys Val Glu Leu Pro Pro Ala Glu Leu Val Gln Arg Asp Val Asp
          115              120              125

Ala Ser Pro Ser Pro Xaa Gln Xaa Arg Thr Ser Arg Gly Ser Xaa Met
          130              135              140

Arg Arg Gly Ser Leu Trp Xaa
145              150

```

<210> 6434

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

5684

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6434

Asp Xaa Ser Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser
1 5 10 15

Ala Asp Ala Cys Phe Ala Phe Tyr Ala Tyr His Tyr Arg Phe Asn Gly
20 25 30

Gln Tyr Ser Ser Leu Ala Leu Val Thr Tyr Trp Leu Phe Ile Gln Val
35 40 45

Arg Pro Gly Arg Gln Ala Gly Gly Arg Pro Ala Val Pro Phe Gln Ala
50 55 60

Gly Glu Ala Ala Ala Gly Glu Asp Ala Leu Trp Gly Arg Pro Lys Arg
65 70 75 80

Ala Glu Val Ala Trp Met Val Pro Xaa Gly Leu Xaa Ser Xaa Ser Ser
85 90 95

Gly Trp Val Val Lys Gly Gly Pro
100

<210> 6435

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6435

Gly Thr Ser Ala Cys Gly Ala Gly Gly Gly Ala Pro Arg Gly Ser Ala
1 5 10 15

Val Phe Arg Ala Ala Gly Leu Asp Gly Ala Leu Gly Lys Ala Leu Lys
20 25 30

Glu Gln Lys Tyr Asp Arg Gln Leu Arg Leu Trp Gly Asp His Gly Gln
35 40 45

5685

Glu Ala Leu Glu Ser Ala His Val Cys Leu Ile Asn Ala Thr Ala Thr
 50 55 60

Gly Thr Glu Ile Leu Lys Asn Leu Val Leu Pro Gly Ile Gly Ser Phe
 65 70 75 80

Thr Ile Xaa

<210> 6436

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6436

Thr Ser Ser Ala Lys Asp Val Pro Ala Gly Ser Leu Arg Thr Ala Leu
 1 5 10 15

Asn Glu Leu Lys Arg Leu Ile Xaa Ser Ile
 20 25

<210> 6437

<211> 91

<212> PRT

<213> Homo sapiens

<400> 6437

His Gly Ala Gly Asn Glu Ala Glu Thr Pro Pro Ala Pro Lys Leu His
 1 5 10 15

Trp Asp Pro Leu Pro Gly Leu Asp Glu Pro Gly Arg Gly Gln His Ser
 20 25 30

Gly Ser Leu Gly Thr Gly Gln Leu Pro Leu Pro Leu Leu Ser Ala Arg
 35 40 45

Pro Asp Gly Ala Arg Glu Arg Arg Trp Pro Arg Gln Pro Ala Ser Thr
 50 55 60

Ser Glu Pro Gly Ser Pro Ser Pro Arg Thr Cys Ala Pro Phe Thr Arg
 65 70 75 80

5686

Thr Gln Asn Ile Leu Lys Cys Tyr Cys Ile Pro
 85 90

<210> 6438

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6438

Xaa Leu Met Lys Asp Gln Phe Tyr Ala Gln Ser Ser Ala Ser Gln Arg
 1 5 10 15

Arg Leu Pro Cys Leu Ala Val Gly Gly Ser Gly Tyr Ala Pro Glu Gln
 20 25 30

Leu Ser Gly Phe Trp Leu Ser Trp Cys Pro Arg Gly Thr Gly Ser Leu
 35 40 45

Leu Ser Gly Gly Trp Gly Phe Met Pro Arg Asp Asp Arg Leu Gly Cys
 50 55 60

Gly Val Ala Gly Ala Gln Thr Gln Met Pro Val Ala Gly Gly Pro Gln
 65 70 75 80

Ser Gly Leu Gly Leu Pro Ser Gly Pro Phe Pro Gln Leu His Cys Cys
 85 90 95

Pro Arg Glu Pro Arg Ser Pro Gly Val Lys Asp Arg Gly Gly Arg Gly
 100 105 110

Gln Ala

<210> 6439

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

5687

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6439

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Thr | Xaa | Xaa | Thr | Leu | Xaa | Ala | Ser | Pro | Ser | Arg | Gly | Arg | Leu | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Gln | Gly | Thr | Cys | Leu | Gly | Arg | Cys | Glu | Ser | Pro | Leu | Pro | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Pro | Cys | Pro | Asn | Arg | Trp | Ser | Cys | Cys | Leu | Glu | Ser | Glu | Glu | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Cys | Pro | Cys | Phe | Gly | Pro | Gly | Pro | Ala | Pro | Ala | Ser | Asp | Arg | Pro |
| | 50 | | | | | 55 | | | | | 60 | | | | |

<210> 6440

<211> 81

<212> PRT

<213> Homo sapiens

<400> 6440

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Gly | Leu | Lys | His | Leu | Trp | Lys | Pro | Ala | Val | Glu | Ala | Tyr | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Phe | Leu | Cys | Met | Phe | Glu | Glu | Asn | Tyr | Pro | Glu | Thr | Leu | Lys | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Phe | Val | Val | Lys | Ala | Pro | Lys | Leu | Phe | Pro | Val | Ala | Tyr | Asn | Leu |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Lys | Pro | Phe | Leu | Ser | Glu | Asp | Thr | Arg | Lys | Lys | Ile | Met | Val | Leu |
| | 50 | | | | | | 55 | | | | 60 | | | | |

5688

Gly Gly Gly Ser Leu Cys Gln Met Glu Arg Met Leu Val Leu Gly Phe
 65 70 75 80

Ser

<210> 6441

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6441

Ala Thr Leu Asp Arg Lys Val Pro Ser Pro Glu Ala Phe Leu Gly Lys
 1 5 10 15

Pro Xaa Ser Ser Trp Xaa Asp Xaa Ala Lys Leu His Cys Ser Asp Asn
 20 25 30

Val Asp Leu Glu Glu Ala Gly Lys Glu Gly Gly Lys Ser Arg Glu Val
 35 40 45

Met Arg Leu Asn Lys Glu Asp Met His Leu Phe Gly His Tyr Pro Ala
 50 55 60

His Asp Asp Phe Tyr Leu Val Val Cys Ser Ala Cys Asn Gln Val Val
 65 70 75 80

Lys Pro Gln Val Phe Gln Ser His Cys Ala Gly Pro Ala Thr Val Pro
 85 90 95

Pro Ser Gly Ser Ser Phe Ser Phe Ser Asp Ser Trp Ala Arg Cys Val
 100 105 110

5689

His Leu Ala Pro Cys
115

<210> 6442

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5690

<221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (50)
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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (59)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6442
 Val Lys Ser Gly Xaa Tyr Val Val Ile Glu Val Lys Val Ala Xaa Xaa
 1 5 10 15
 Tyr Gly Ile Xaa Ile Thr Cys Xaa Xaa Tyr Leu Met Thr Xaa Tyr Gln
 20 25 30
 Xaa Ala Pro Pro Ser Pro Gln Tyr Arg Xaa Ile Ile Cys Met Gly Ala
 35 40 45
 Xaa Xaa Asn Gly Leu Pro Leu Xaa Tyr Gln Xaa Xaa Leu Xaa Ala Leu
 50 55 60

5691

Xaa Pro Asn Asp Tyr Thr
65 70

<210> 6443

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

5692

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6443

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Phe | Lys | Met | Gln | Ile | Val | Ala | Cys | Gly | Glu | Gly | Pro | Gly | Leu | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Glu | Arg | Xaa | Gly | Xaa | Xaa | Phe | Ser | Gln | Pro | Gly | Arg | Ser | Xaa | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Phe | Xaa | Met | Cys | Lys | Gly | Gly | Val | Gln | Ala | Pro | Gly | Gly | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Val | Ser | Phe | Phe | Leu | Xaa | Gly | Asp | Gly | Xaa | Gly | Val | Arg | Xaa |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Asp | Ala | Leu | Ala | Cys | Glu | Xaa | Glu | Leu | Glu | Lys | Cys | Arg | Cys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

<210> 6444

<211> 129

<212> PRT

<213> Homo sapiens

<400> 6444

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Glu | Leu | Glu | Leu | Tyr | Lys | Glu | Glu | Leu | Gln | Thr | Lys | Pro | Ala | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Val | Asn | Lys | Met | Asp | Leu | Pro | Asp | Ala | Gln | Asp | Lys | Phe | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Leu | Met | Ser | Gln | Leu | Gln | Asn | Pro | Lys | Asp | Phe | Leu | His | Leu | Phe |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Asn | Met | Ile | Pro | Glu | Arg | Thr | Val | Glu | Phe | Gln | His | Ile | Ile |
| | 50 | | | | | 55 | | | | 60 | | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ile | Ser | Ala | Val | Thr | Gly | Glu | Gly | Ile | Glu | Glu | Leu | Lys | Asn | Cys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

5693

Ile Arg Lys Ser Leu Asp Glu Gln Ala Asn Gln Glu Asn Asp Ala Leu
85 90 95
His Lys Lys Gln Leu Leu Asn Leu Trp Ile Ser Asp Thr Met Ser Ser
100 105 110
Thr Glu Pro Pro Ser Lys His Ala Val Thr Thr Ser Lys Met Asp Ile
115 120 125

Ile

<210> 6445

<211> 135

<212> PRT

<213> Homo sapiens

<220>

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<220>

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5694

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 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6445
 Leu Arg Gln Ala Leu Ile Arg Leu Thr Ile Xaa Xaa Xaa Trp Tyr Ala
 1 5 10 15

 Cys Arg Tyr Arg Ala Gly Ile Xaa Gly Ser Thr His Ala Ser Ala Gly
 20 25 30

 Glu Arg Pro Phe Glu Cys Ile Glu Cys Gly Lys Ala Phe Ser Asn Gly
 35 40 45

 Ser Xaa Leu Ala Gln His Gln Arg Ile His Thr Gly Glu Lys Pro Xaa
 50 55 60

5695

Val Xaa Asn Val Xaa Xaa Lys Ala Phe Ser His Arg Gly Tyr Leu Ile
65 70 75 80

Val His Gln Arg Ile His Thr Gly Glu Arg Pro Tyr Glu Cys Lys Glu
85 90 95

Cys Xaa Lys Ala Phe Xaa Gln Tyr Ala His Leu Ala Gln His Gln Arg
100 105 110

Val His Thr Gly Glu Xaa Pro Tyr Glu Cys Lys Val Leu Xaa Glu Ser
115 120 125

Leu Gln Xaa Asn Cys Ile Pro
130 135

<210> 6446

<211> 138

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

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5696

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (21)

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<220>

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<222> (22)

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<222> (23)

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5697

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<220>
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<222> (56)
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<220>
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<222> (70)
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5698

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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6446
 Lys Trp Leu Pro Pro Lys Phe Pro Xaa Lys Arg Xaa Gly Xaa Leu Ile
 1 5 10 15
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ile Xaa Xaa Pro Xaa Xaa Xaa Xaa Tyr
 20 25 30
 Gly Xaa Ala Trp Xaa Xaa Pro Xaa Trp Asn Xaa Pro Xaa Phe Cys Pro
 35 40 45
 Xaa Ile Asn Val Leu Leu Ala Xaa Asn Leu Ser Pro Arg Pro Leu Pro
 50 55 60
 Arg Lys Val Pro Pro Xaa Xaa Val Gly Gly Asn Leu Val Ala Ile Leu
 65 70 75 80
 Thr Ala Ala Asn Leu Lys Ser Val Asn Leu Val Ala Asn Phe Asn Thr
 85 90 95
 Leu Phe Val Leu Val Gln Ile Ser Ile Met Val Val Phe Ile Phe Leu
 100 105 110
 Val Val Gln Gly Leu His Lys Xaa Xaa Xaa Leu Ala Pro Ser Gly Xaa
 115 120 125
 Phe Ser Arg Leu Ser Ala Arg Thr Arg Thr
 130 135

<210> 6447

5699

<211> 197
 <212> PRT
 <213> Homo sapiens

<220>
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<220>
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<220>
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 <222> (164)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (181)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6447
 Ala Asp Ala Trp Val Leu Val Val Phe Lys Ala Pro Arg Ala Asp Ser
 1 5 10 15

His Gly Pro Gly Cys Arg Pro Pro Leu Cys Pro Gly Leu Val Ala Tyr
 20 25 30

5700

Val Asp Leu Asp Glu Arg Ala Ile Asp Ala Leu Arg Glu Phe Asn Glu
 35 40 45
 Glu Gly Ala Leu Ser Val Leu Gln Gln Phe Lys Glu Ser Asp Leu Ser
 50 55 60
 His Val Gln Asn Lys Ser Ala Phe Leu Cys Gly Val Met Lys Thr Tyr
 65 70 75 80
 Arg Gln Arg Glu Lys Gln Gly Ser Lys Val Gln Glu Ser Thr Lys Gly
 85 90 95
 Pro Asp Glu Ala Lys Ile Lys Ala Leu Leu Glu Arg Thr Gly Tyr Thr
 100 105 110
 Leu Asp Val Thr Thr Gly Gln Arg Lys Tyr Gly Gly Pro Ser Pro Asp
 115 120 125
 Ser Val Tyr Ser Gly Val Gln Pro Gly Ile Gly Thr Xaa Val Phe Val
 130 135 140
 Gly Lys Ile Pro Arg Asp Leu Tyr Glu Asp Glu Leu Val Pro Leu Phe
 145 150 155 160
 Glu Xaa Ala Xaa Pro Ile Trp Asp Leu Arg Leu Met Met Asp Pro Leu
 165 170 175
 Ser Gly Arg Ile Xaa Gly Met His Leu Ser Pro Ser Xaa Xaa Lys Glu
 180 185 190
 Xaa Xaa Arg Lys Pro
 195

<210> 6448

<211> 65

<212> PRT

<213> Homo sapiens

<400> 6448

Tyr Thr Leu Leu Glu Leu Glu Leu Pro Arg Leu Leu Ala Pro Asp Leu
 1 5 10 15
 Pro Ser Asn Gly Ser Ser Leu Lys Asp Leu Lys Trp Thr His Ser Asn
 20 25 30
 Tyr Arg Ala Ser Lys Glu Ser Cys Ile Val Ile Phe Arg His Tyr Leu
 35 40 45
 Pro Gly Ser Gly Val Gly Asn Leu Arg Ala Cys Cys Leu Pro Trp Met

5701

50

55

60

Trp

65

<210> 6449

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6449

Ile Trp His Glu Ala Thr Pro Thr Gly Gly Gly Xaa Met Ala Arg Thr

1

5

10

15

Trp Lys Pro Thr Leu Val Ile Leu Xaa Ile Lys Arg Ala Gly Arg Cys

20

25

30

Xaa Arg Trp Xaa Pro Asn Glu Asn Lys Val Ala Val Gly Asn Gly Ser

35

40

45

5702

Xaa Glu Xaa Ser Ile Trp Tyr Phe Gln Gln Gly Glu
 50 55 60

<210> 6450

<211> 82

<212> PRT

<213> Homo sapiens

<220>

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<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6450

Asp Phe Xaa Gln Met Leu Gln Glu Ile Gln Glu Val Lys Thr Pro Glu
 1 5 10 15

Glu Leu Glu Thr Phe Met Leu Lys His Gly Glu Asn Ile Ile Asp Thr
 20 25 30

Leu Gly Ala Glu Val Asp Arg Leu Glu Lys Glu Leu Lys Val Arg Cys
 35 40 45

Ile His Lys Asn Asn Ile Met Ile Met Ala Ala Ile Phe Leu Ser Thr
 50 55 60

Tyr Ser Thr Ala Asp Thr Lys Cys Ile His His Met His Ala Leu Thr
 65 70 75 80

His Ser

<210> 6451

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

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<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

5703

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (123)
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5704

<400> 6451

Xaa His His Leu Tyr Arg Ala Tyr Ser Phe Xaa Met Gly Cys Trp Pro
 1 5 10 15

Lys Asn Gly Leu Leu Xaa Met Asn Lys Gly Leu Ser Leu Gln His Ile
 20 25 30

Gly Arg Pro His Thr Gly Ile Asp Asp Cys Lys Lys His Cys Xaa His
 35 40 45

His Glu Xaa Thr Arg Leu Ser Arg Leu His Leu Gln Ala Asp Ile Xaa
 50 55 60

Xaa Val Leu Ile Gly Pro Arg Gln Asp Gly Ala Arg Gln Gly Xaa Cys
 65 70 75 80

Leu Ala His Pro Lys Ser Ser Ser Pro Ser Pro Xaa Gly Lys Lys Glu
 85 90 95

Asn Gly Ile Leu Cys Val Gln Asn Val Pro Xaa Ala Cys Xaa Leu Cys
 100 105 110

Pro Trp Arg Trp Leu Phe Pro Cys Lys Gly Xaa Ala Leu Gly Pro Ser
 115 120 125

Gly Thr Lys Leu Phe Ser Pro His Pro Thr Leu Ile Ser Pro Ser Ile
 130 135 140

Thr Pro Pro Leu Arg Ala Gly Leu Gly Glu Pro Gly Ser Pro Leu Ser
 145 150 155 160

Leu Phe Thr Gly

<210> 6452

<211> 107

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6452

Val Val Ser Lys Val Cys Val Trp Pro Gly Val His Pro Leu Pro Ser
 1 5 10 15

Ser Pro Ala Pro Glu His Ser Cys Ser Ala Arg Pro His Ser Ser Ala

5705

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Leu | Leu | Pro | Ile | Pro | Thr | Arg | Arg | Arg | Cys | Pro | Gly | Pro | Val | Cys | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Ala | His | Val | Asp | Trp | Glu | Gly | Arg | Ala | Gly | Ala | Gly | Leu | Gly | Ala | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Ala | Xaa | Ala | Val | Phe | Ser | Phe | Leu | His | Ser | Arg | Arg | Ala | Gly | Gly | Trp |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Gly | Cys | Phe | Pro | Ala | Arg | Pro | Gln | Gly | Gln | Ala | Pro | Trp | Gly | Phe | Ile |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Arg | Gly | Leu | Glu | Gly | Trp | Gly | Gln | Lys | Gln | Ala | | | | | |
| | | | 100 | | | | | 105 | | | | | | | |

<210> 6453

<211> 114

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

 $\langle 222 \rangle \quad (99)$

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

 $\langle 222 \rangle \quad (103)$

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

5706

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6453

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gly | Lys | Gly | Leu | Glu | Gly | Pro | Leu | Asp | Leu | Ile | Asn | Tyr | Ile | Asp |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Gln | Gln | Asp | Gly | Lys | Leu | Pro | Phe | Val | Pro | Pro | Glu | Glu | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ile | Met | Gly | Val | Ser | Lys | Tyr | Gly | Ile | Lys | Val | Ser | Thr | Ser | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Tyr | Asp | Val | Leu | His | Arg | His | Ala | Leu | Tyr | Leu | Ile | Ile | Arg | Met |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Cys | Tyr | Asp | Asp | Gly | Leu | Gly | Ala | Gly | Lys | Ser | Leu | Leu | Ala | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Thr | Thr | Asp | Ala | Ser | Xaa | Glu | Glu | Tyr | Arg | Leu | Trp | Val | Tyr | Xaa |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gln | Xaa | Xaa | Gly | Thr | Xaa | Thr | Ser | His | Leu | Xaa | Gly | Xaa | Ile | His |
| | | | 100 | | | | | 105 | | | | | 110 | | |

Arg Phe

<210> 6454

<211> 95

<212> PRT

<213> Homo sapiens

<220>

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<222> (75)

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<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5707

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6454

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Gly | Pro | Gly | Lys | Pro | Trp | Ser | Pro | Ser | Pro | Gln | Pro | Pro | Pro |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ala | His | Arg | Ser | Ser | Pro | Trp | Ala | Pro | Ser | Ser | Lys | Ser | Thr | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Thr | Arg | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Arg | Phe | Leu | Gly | Asn | Ser | Gly | Ala | Leu | Thr | Ser | Gly | Val | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Leu | Pro | Gly | Cys | Ser | Tyr | Ser | Pro | Gln | Xaa | Ser | Thr | Pro | Ser | Xaa |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Xaa | Xaa | Leu | Thr | Val | Pro | Ser | Gln | Lys | Leu | Gly | Asp | Gln | Lys | Leu | |
| | | | 85 | | | | | | 90 | | | | | 95 | |

<210> 6455

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6455

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Pro | Phe | Arg | Gly | Pro | Lys | Asp | Arg | Ala | Arg | Lys | Leu | Ala | Glu | Val |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | His | Glu | Lys | Val | Gly | Gln | Xaa | Pro | Cys | Cys | Val | Arg | Leu | Glu |
| | | | 20 | | | | 25 | | | | | | 30 | | |

5708

Gln Ala Trp Glu Glu Gly Gly Ile Leu Tyr Leu Gln Thr Glu Leu Cys
 35 40 45
 Gly Pro Ser Leu Gln Gln His Cys Glu Ala Trp Gly Ala Ser Leu Pro
 50 55 60
 Glu Ala Gln Val Trp Gly Tyr Leu Arg Asp Thr Leu Leu Ala Leu Ala
 65 70 75 80
 His Leu His Ser Gln Gly Leu Val His Leu Asp Xaa Gln Ala Cys Gln
 85 90 95
 His Leu Pro Gly Ala Pro Gly Pro Leu Gln Ala Gly
 100 105

<210> 6456

<211> 21

<212> PRT

<213> Homo sapiens

<400> 6456

Gly Gly Leu Asn Gln Thr Gln Leu Arg Lys Ile Leu Ala Tyr Ser Ser
 1 5 10 15

Ile Thr His Ile Gly
 20

<210> 6457

<211> 128

<212> PRT

<213> Homo sapiens

<400> 6457

Arg Arg Ala Met Ala Asp Glu Glu Leu Glu Ala Leu Arg Arg Gln Arg
 1 5 10 15

Leu Ala Glu Leu Gln Ala Lys His Gly Asp Pro Gly Asp Ala Ala Gln
 20 25 30

Gln Glu Ala Lys His Arg Glu Ala Glu Met Arg Asn Ser Ile Leu Ala
 35 40 45

Gln Val Leu Asp Gln Ser Ala Arg Ala Arg Leu Ser Asn Leu Ala Leu
 50 55 60

Val Lys Pro Glu Lys Thr Lys Ala Val Glu Asn Tyr Leu Ile Gln Met

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 65 | | | | 70 | | | | 75 | | | | 80 | | | | |
| Ala | Arg | Tyr | Gly | Gln | Leu | Ser | Glu | Lys | Val | Ser | Glu | Gln | Gly | Leu | Ile | |
| | | | | 85 | | | | | 90 | | | | | 95 | | |
| Glu | Ile | Leu | Lys | Lys | Val | Ser | Gln | Gln | Thr | Glu | Lys | Thr | Thr | Thr | Val | |
| 100 | | | | | | | | 105 | | | | | 110 | | | |
| Lys | Val | Ser | Val | Pro | Arg | Cys | Leu | Trp | Gln | Met | Lys | Arg | Trp | Ile | Leu | |
| 115 | | | | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| <400> 6458 | | | | | | | | | | | | | | | | |
| Glu | Val | Thr | Thr | Phe | Gln | Leu | Ala | Val | Leu | Phe | Ala | Trp | Asn | Gln | Arg | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| Pro | Arg | Glu | Lys | Ile | Ser | Phe | Glu | Asn | Leu | Lys | Leu | Ala | Thr | Glu | Leu | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| Pro | Asp | Ala | Glu | Leu | Arg | Arg | Thr | Leu | Trp | Ser | Leu | Val | Ala | Phe | Pro | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| Lys | Leu | Lys | Arg | Gln | Val | Leu | Leu | Tyr | Glu | Pro | Gln | Val | Asn | Ser | Pro | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| Lys | Asp | Phe | Thr | Glu | Gly | Thr | Leu | Phe | Ser | Val | Asn | Gln | Glu | Phe | Ser | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| Leu | Ile | Lys | Asn | Ala | Lys | Val | Gln | Lys | Arg | Gly | Lys | Ile | Asn | Leu | Ile | |
| | | | 85 | | | | | | 90 | | | | | 95 | | |
| Gly | Arg | Leu | Gln | Leu | Thr | Thr | Glu | Arg | Met | Arg | Glu | Glu | Glu | Asn | Glu | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| Gly | Ile | Val | Gln | Leu | Arg | Ile | Leu | Arg | Thr | Gln | Glu | Ala | Ile | Ile | Gln | |
| | | 115 | | | | | 120 | | | | | 125 | | | | |
| Ile | Met | Lys | Met | Arg | Lys | Lys | Ile | Ser | Asn | Ala | Gln | Leu | Gln | Thr | Glu | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |
| Leu | Val | Glu | Ile | Leu | Lys | Asn | Met | Phe | Leu | Pro | Gln | Lys | Glu | Met | Ile | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |

5710

Lys Val Gln

<210> 6459

<211> 175

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6459

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Asp | Arg | Leu | Arg | Glu | Glu | Arg | Ala | His | Ala | Leu | Lys | Thr | Lys | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Ala | Gln | Thr | Ala | Thr | Ala | Ser | Ser | Ala | Ala | Val | Gly | Ser | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Pro | Glu | Ala | Glu | Gln | Ala | Trp | Pro | Gln | Ser | Ser | Gly | Glu | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Leu | Gln | Leu | Gln | Leu | Ala | Leu | Ala | Met | Ser | Lys | Glu | Glu | Ala | Asp |
| | 50 | | | | 55 | | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Pro | Pro | Ser | Cys | Gly | Pro | Glu | Asp | Asp | Ala | Gln | Leu | Gln | Leu | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Leu | Ser | Arg | Glu | Glu | His | Asp | Lys | Glu | Glu | Arg | Ile | Arg | Arg |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asp | Asp | Leu | Arg | Leu | Gln | Met | Ala | Ile | Glu | Glu | Ser | Lys | Arg | Glu |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gly | Gly | Lys | Glu | Glu | Ser | Ser | Leu | Met | Asp | Leu | Ala | Asp | Val | Phe |
| | | 115 | | | | | 120 | | | | | 125 | | | |

5711

Thr Gly Pro Ala Ser Ala Arg Pro Gln Thr Pro Gly Gly Ala His Thr
 130 135 140

His Gly Leu Xaa Pro Ser His Gly Leu Pro Asn Leu Asp Pro Trp Gly
 145 150 155 160

Gly Pro Pro Val Pro Ser Xaa Ala Xaa Ser Pro Gly Glu Gly Ser
 165 170 175

<210> 6460

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6460

Ala Xaa Ala Ser Asp Leu Asn Asp Ile Tyr Glu Glu Glu Pro Phe Asn
 1 5 10 15

Phe Gln Met Val Tyr Asn Glu Phe Gln Lys Phe Val Gln Arg Lys Ala
 20 25 30

His Ser Val Tyr Asn Phe Glu Lys Pro Val Val Met Lys Ala Phe Glu
 35 40 45

His Leu Gln Gln Leu Glu Leu Ile Lys Pro Met Glu Arg Thr Ser Gly
 50 55 60

Asn Ser Gln Arg Glu Ser Ser
 65 70

<210> 6461

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5712

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6461

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Val | Pro | Asn | Ser | Ala | Arg | Val | Trp | Thr | Asn | Pro | Gln | Ile | Lys | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Thr | Glu | Lys | Asp | Glu | Gly | Gln | Glu | Glu | Cys | Ser | Phe | Leu | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Met | Gln | Lys | Asp | Arg | Arg | Lys | Leu | Lys | Arg | Phe | Gly | Ala | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Leu | Thr | Ile | Gly | Tyr | Ala | Ile | Tyr | Asn | Cys | Pro | Asn | Lys | Asn | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Asn | Lys | Asn | Pro | Pro | Asn | Pro | Xaa | Ser | Leu |
| 65 | | | | | 70 | | | | | 75 | |

<210> 6462

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

5713

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6462

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Thr | Thr | Xaa | Xaa | Gly | Lys | Ala | Gly | Thr | Pro | Ala | Gly | Thr | Gly | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Phe | Pro | Gly | Arg | Pro | Thr | Arg | Pro | Lys | Ala | Leu | Lys | Arg | Gly | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Gly | Cys | Phe | Ile | Asp | Thr | Arg | Ser | Ala | Ala | Glu | Ser | Glu | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Thr | Pro | Phe | Gly | Leu | Ile | Lys | Gly | His | Ala | Tyr | Ser | Val | Thr | Gly |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asp | Gln | Val | Ser | Phe | Arg | Gly | Gln | Arg | Ile | Glu | Leu | Ile | Arg | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Asn | Pro | Trp | Gly | Gln | Val | Glu | Trp | Asn | Gly | Ser | Trp | Ser | Asp | Ser |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Glu | Trp | Arg | Ser | Val | Val | Gln | Leu | Ser | Xaa | Ser | Val | Cys | Val |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Thr | Leu | Xaa | Trp | Met | Met | Gly | Asn | Ser | Gly | Trp | His | Leu | Arg | Thr | |
| | | 115 | | | | | 120 | | | | | 125 | | | |

<210> 6463

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6463

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Leu | Thr | Leu | Gln | Gly | Asp | Ala | Leu | Ser | Gln | Ala | Asp | Val | Asn | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

5714

Lys Met Pro Arg Asn Asn Gln Leu Leu His Phe Ala Phe Arg Glu Asp
 20 25 30

Lys Gln Trp Lys Leu Gln Gln Ile Gln Asp Ala Arg Asn His Val Ser
 35 40 45

Gln Ala Ile Tyr Leu Leu Thr Ser Arg Asp Gln Ser Tyr Gln Phe Lys
 50 55 60

Thr Gly Ala Glu Val Leu Lys Leu Met Asp Ala Val Met Leu Gln Leu
 65 70 75 80

Thr Arg Ala Arg Asn Arg Leu Thr Thr Pro Ala Thr Leu Thr Leu Pro
 85 90 95

Glu Ile Ala Ala Ser Gly Leu Thr Arg Met Phe Ala Pro Ala Leu Pro
 100 105 110

Ser Asp Leu Leu Val Asn Val Tyr Ile Asn Leu Asn Lys Leu Cys Leu
 115 120 125

Thr Val Tyr Gln Leu Xaa Ala Leu Gln Pro Asn Phe Thr Lys Asn Phe
 130 135 140

Ala Xaa Trp Gly Arg Gly Ala Ala
 145 150

<210> 6464

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5715

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6464

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Arg | Arg | Xaa | Met | Ala | Val | Leu | Ser | Xaa | Glu | Tyr | Gly | Phe | Val | Leu |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Gly | Ala | Ala | Ser | Phe | Xaa | Met | Val | Xaa | Xaa | Leu | Ala | Xaa | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Lys | Ala | Arg | Lys | Lys | Tyr | Lys | Xaa | Glu | Trp | Thr | Leu | Pro | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Phe | Ser | His | Thr | Gln | Phe | Leu | Phe | Phe | Tyr |
| | 50 | | | | | 55 | | | | |

<210> 6465

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

5716

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

5717

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6465

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | His | Ala | Ser | Xaa | Leu | Pro | Ser | Leu | Arg | Pro | Glu | Ala | Ala | Xaa | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Arg | Ser | Xaa | Pro | Lys | Val | Cys | Val | Thr | Val | Leu | Pro | Pro | Asp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ser | Gly | Arg | Pro | Arg | Arg | Ser | Phe | Ser | Glu | Leu | Tyr | Thr | Leu | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gln | Xaa | Pro | Ser | Xaa | Arg | Gly | Ala | Pro | Asp | Xaa | Val | Gln | Asp | Glu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Xaa | Gly | Val | Thr | Leu | Leu | Ser | Thr | Xaa | Xaa | Gln | Xaa | Leu | His | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Leu | Gln | Asp | Gly | Gly | Lys | Ser | Ser | Xaa | Ala | Trp | Xaa | Ser | Gly | Xaa |
| | | | | 85 | | | | | 90 | | | | | 95 | |

Gly Xaa Asp

<210> 6466

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6466

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Thr | Arg | Xaa | Glu | Pro | Gln | Lys | Val | Ser | Thr | Leu | Gly | Lys | Ser | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ile | Val | Thr | Gly | Ala | Asn | Phe | Thr | Arg | Ala | Ser | Asn | Ile | Thr | Met |
| | | | 20 | | | | | 25 | | | | | 30 | | |

5718

Ile Leu Lys Gly Thr Ser Thr Cys Asp Lys Asp Val
35 40

<210> 6467

<211> 177

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

5719

<220>
 <221> SITE
 <222> (154)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (157)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (167)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (168)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6467
 Gly Xaa Thr Thr Xaa His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr
 1 5 10 15
 Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Asp Ala Trp Val
 20 25 30
 Gly Met Gln Leu Asp Arg Ala Ser Ser Ser Leu Tyr Val Ala Phe Ser
 35 40 45
 Thr Cys Val Ile Lys Val Pro Leu Gly Arg Cys Glu Arg His Gly Lys
 50 55 60
 Cys Lys Lys Thr Cys Ile Ala Xaa Arg Asp Pro Tyr Cys Gly Trp Ile
 65 70 75 80
 Lys Glu Gly Gly Ala Cys Ser His Xaa Ser Pro Asn Ser Arg Leu Thr
 85 90 95
 Phe Glu Gln Asp Ile Glu His Gly Asn Thr Asp Gly Leu Gly Asp Cys
 100 105 110
 His Asn Xaa Phe Val Ala Leu Asn Gly His Ser Ser Xaa Leu Leu Pro
 115 120 125
 Ser Thr Thr Thr Ser Asp Ser Thr Ala Gln Glu Gly Tyr Glu Thr Xaa
 130 135 140
 Gly Gly Met Leu Asp Trp Lys His Xaa Xaa Asp Ser Xaa Asp Ser Thr
 145 150 155 160

5720

Asp Pro Leu Gly Ala Arg Xaa Xaa His Asn His Gln Arg Gln Glu Gly
 165 170 175

Ser

<210> 6468

<211> 99

<212> PRT

<213> Homo sapiens

<400> 6468

Met Gly Ala Val Gln Gln Phe Asn Leu Asp Val Ile Gln Cys Glu Leu
 1 5 10 15

Phe Ala Ser Ser Glu Pro Val Pro Gly Phe Gln Gly Asp Thr Leu Gln
 20 25 30

Leu Ala Phe Ile Asp Leu Arg Gln Leu Leu Asp Leu Phe Met Val Trp
 35 40 45

Asp Trp Ser Thr Tyr Leu Ala Asp Tyr Gly Gln Pro Ala Ser Lys Tyr
 50 55 60

Leu Arg Val Asn Pro Asn Thr Ala Leu Thr Leu Leu Glu Lys Met Lys
 65 70 75 80

Asp Thr Ser Lys Lys Asn Asn Ile Phe Ala Gln Phe Arg Lys Asn Asp
 85 90 95

Arg Asp Lys

<210> 6469

<211> 30

<212> PRT

<213> Homo sapiens

<400> 6469

Ile Gln Val Ser Val Leu Thr Asp Gln Val Glu Ala Gln Gly Glu Lys
 1 5 10 15

Ile Arg Asp Leu Glu Phe Cys Leu Lys Ser Thr Glu Arg Ser
 20 25 30

5721

<210> 6470

<211> 116

<212> PRT

<213> Homo sapiens

<400> 6470

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Pro | Leu | Lys | Ala | Lys | Met | Gly | Lys | Glu | Lys | Thr | His | Ile | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Val | Val | Ile | Gly | His | Val | Asp | Ser | Gly | Lys | Ser | Thr | Thr | Thr | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Leu | Ile | Tyr | Lys | Cys | Gly | Gly | Ile | Asp | Lys | Arg | Thr | Ile | Glu | Lys |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Glu | Lys | Glu | Ala | Ala | Glu | Met | Gly | Lys | Gly | Ser | Phe | Lys | Tyr | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Val | Leu | Asp | Lys | Leu | Lys | Ala | Glu | Arg | Glu | Arg | Gly | Ile | Thr | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Ser | Leu | Trp | Lys | Phe | Glu | Thr | Ser | Lys | Tyr | Tyr | Val | Thr | Ile |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asp | Ala | Pro | Gly | His | Arg | Asp | Phe | Ile | Lys | Asn | Met | Ile | Thr | Gly |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | |
|-----|-----|-----|-----|
| Thr | Ser | Gln | Ala |
| | | | 115 |

<210> 6471

<211> 37

<212> PRT

<213> Homo sapiens

<400> 6471

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Pro | Tyr | Gly | Ile | Val | Glu | Lys | Lys | Ser | Arg | Ile | Phe | Pro | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Thr | Ile | Leu | Glu | Thr | Gly | Glu | Val | Ile | Pro | Pro | Met | Lys | Glu | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Pro | Asp | Gln | His | His |
| | | | 35 | |

<210> 6472

<211> 89

5722

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6472

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Ala | Asp | Gly | Gly | Ser | Ala | Ala | Cys | Ser | Trp | Lys | Phe | Arg | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Cys | Leu | Leu | Gly | Ala | Met | Glu | Ser | Asp | Phe | Tyr | Leu | Arg | Tyr | Tyr |
| | | 20 | | | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gly | His | Lys | Gly | Lys | Phe | Gly | His | Glu | Phe | Leu | Glu | Phe | Glu | Phe |
| | | 35 | | | | 40 | | | | | 45 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Pro | Asp | Gly | Lys | Leu | Arg | Tyr | Ala | Asn | Ser | Ala | Ala | Ala | Xaa | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Cys | Ser | Gly | Phe | Xaa | Gly | His | Gly | Xaa | Thr | Gly | Gln | Ser | Xaa | Glu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Arg | Val | Trp | Gln | Trp | Asn | Phe |
| | | | | 85 | | | | |

<210> 6473

<211> 96

5723

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6473

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Xaa | Gln | Arg | Ala | Val | Tyr | Asp | Glu | Gln | Gly | Thr | Val | Asp | Glu | Asp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Val | Leu | Thr | Gln | Asp | Arg | Asp | Trp | Glu | Ala | Tyr | Trp | Arg | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Phe | Lys | Lys | Ile | Ser | Leu | Glu | Asp | Ile | Gln | Ala | Phe | Glu | Lys | Thr |
| | | 35 | | | | | | 40 | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Lys | Gly | Ser | Glu | Glu | Glu | Leu | Ala | Asp | Ile | Lys | Gln | Ala | Tyr | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Phe | Lys | Gly | Asp | Met | Asp | Gln | Ile | Met | Glu | Ser | Val | Leu | Cys | Val |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Tyr | Thr | Glu | Glu | Pro | Arg | Met | Lys | Xaa | Tyr | His | Ser | Ala | Ser | Tyr |
| | | | | 85 | | | | | 90 | | | | | 95 | |

<210> 6474

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

5724

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6474

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Glu | Ser | Thr | Leu | His | Leu | Val | Leu | Arg | Leu | Arg | Gly | Gly | Met | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Phe | Val | Lys | Thr | Leu | Thr | Gly | Lys | Thr | Ile | Thr | Leu | Glu | Xaa | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Asp | Thr | Ile | Glu | Asn | Val | Glu | Ala | Lys | Ile | Gln | Asp | Lys | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ile | Pro | Pro | Asp | Gln | Xaa | Xaa | Leu | Ile | Phe | Ala | Gly | Lys | Gln | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asn | Gly | Arg | Xaa | Leu | Ser | Asp | Tyr | His | Ile | Gln | Xaa | Asp | Pro | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Thr | Trp | Cys | Ser | Val | Ser | Xaa | Val | Gly | Cys | Lys | Ser | Ser | Xaa | Arg |
| | | | | 85 | | | | | 90 | | | | | 95 | |

Pro Asp Trp

<210> 6475

5725

<211> 64
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6475
 Gly Lys Leu Val Arg Leu Gln Val Pro Gly Arg Asn Ser Arg Val Asp
 1 5 10 15
 Pro Arg Val Arg Gly Ser Glu Leu Ser Gly Xaa Ile Ser Ser Ala Cys
 20 25 30
 Asp Xaa Glu Xaa Asn Met Glu Arg Arg Xaa Ile Thr Ile Ser Lys Ser
 35 40 45
 Glu Tyr Ser Xaa His Ser Ser Leu Ala Ser Lys Xaa Asp Val Glu Gln
 50 55 60

5726

<210> 6476

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6476

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Phe | Leu | Ala | Ser | Gly | Pro | Tyr | Leu | Thr | His | Gln | Gln | Lys | Val | Leu |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Tyr | Lys | Arg | Ala | Leu | Arg | His | Leu | Glu | Ser | Trp | Cys | Val | Xaa |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Asp | Lys | Tyr | Arg | Tyr | Phe | Ala | Cys | Leu | Met | Arg | Ala | Arg | Phe | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | His | Lys | Asn | Glu | Lys | Asp | Met | Ala | Lys | Ala | Thr | Gln | Leu | Xaa | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ala | Xaa | Gly | Lys | Asn | Ser | Gly | Thr | Ala | Xaa | Xaa | Thr | Ala | Ile | His |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

Leu Pro

5727

<210> 6477

<211> 48

<212> PRT

<213> Homo sapiens

<400> 6477

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Leu | Leu | Gly | Lys | Lys | Gly | Ile | Glu | Lys | Asn | Leu | Gly | Ile | Gly |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Val | Ser | Ser | Phe | Glu | Glu | Lys | Met | Ile | Ser | Asp | Ala | Ile | Pro | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Ala | Ser | Ile | Lys | Lys | Gly | Glu | Asp | Phe | Val | Lys | Thr | Leu | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

<210> 6478

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6478

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Val | Leu | Ala | Asp | Ile | Thr | Lys | Ser | Leu | Thr | Asn | Pro | Thr | Pro | Ile |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Gln | Gln | Leu | Arg | Arg | Phe | Thr | Glu | His | Asn | Ser | Ser | Pro | Asn | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ser | Leu | Ser | Ser | Gly | Leu | Gln | Lys | Ile | Phe | Xaa | Asp | Pro | Thr |
| | | | 35 | | | | 40 | | | | | 45 | | | |

5728

Asp Ser Asp Leu His Lys Leu Lys Ser Pro Ser Gln Asp Asn Thr Asp
 50 55 60
 Ser Tyr Phe Arg Gly Lys Thr Leu Leu Leu Val Gln Gln Ala Ser Ser
 65 70 75 80
 Gln Ser Met Thr Tyr Ser Glu Lys Asp Glu Arg Glu Ser Ser Leu Pro
 85 90 95
 Asn Gly Arg Ser Val Ser Leu Met Asp Leu Gln Xaa Thr His Ala Ala
 100 105 110
 Gln Val Glu His Ala Ser Val Met Leu Asp Val Pro Ile Arg Leu Thr
 115 120 125
 Gly Ser Gln Leu Ser Ile Thr Gln Val Ala Ser Ile Lys Gln Leu Arg
 130 135 140
 Glu Thr Gln Ser Thr Xaa Gln Ser Ala Pro Gln Val Arg Arg
 145 150 155

<210> 6479

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

5729

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6479

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Xaa | Xaa | Leu | Ser | Xaa | Ala | Phe | Xaa | Xaa | Glu | Asp | Pro | Gly | Leu | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Arg | Ala | Cys | Asp | Xaa | Ile | His | Ser | Ser | Ile | Val | Ala | Thr | Tyr | Xaa |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Xaa | Thr | Gly | Arg | Arg | Ser | Thr | Thr | Ser | Thr | Thr | Gly | Lys | Thr | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Leu | Pro | Asn | Leu | Xaa | Arg | Leu | Ala | Ala | His | Ala | Pro | Xaa | Xaa | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Trp | Arg | Asn | Lys | Gly |
| 65 | | | | |

<210> 6480

5730

<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6480
Ser Gly His Ser Asn Tyr Met Val Asp Trp Tyr Gln Gln Arg Pro Gly
1 5 10 15
Lys Gly Pro Arg Phe Val Met Arg Val Gly Thr Ser Gly Val Val Gly
20 25 30
Pro Arg Gly Asp Gly Ile Pro Asp Arg Phe Ser Val Leu Ala Ser Gly
35 40 45
Leu Ser Arg Asp Leu Thr Ile Thr Asn Ile Gln Glu Arg Xaa
50 55 60

<210> 6481
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5731

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6481

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Lys | Arg | Val | Ser | Leu | Leu | Xaa | Asn | Pro | Pro | Thr | Val | Gly | Gly | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Lys | Leu | Thr | Asp | Val | His | Pro | Xaa | Ile | Leu | Glu | Pro | Thr | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Xaa | Ser | Thr | Thr | His | Pro | Xaa | Phe | Tyr | Pro | Asn | Xaa | Phe | Gly | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Pro | Thr | Leu | Leu | Xaa | Leu | Phe | Pro | Pro | Xaa | Tyr | Pro | Leu |
| | 50 | | | | | 55 | | | | | 60 | | |

<210> 6482

<211> 118

<212> PRT

<213> Homo sapiens

<400> 6482

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Thr | Gly | Pro | Asp | Pro | Ala | Gly | Lys | Glu | Gly | Glu | Gly | Gly | Gln | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Cys | Ser | Arg | Glu | His | Ala | Gly | Asp | Pro | Trp | Phe | Gln | Ser | Pro | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Ala | Thr | Lys | Pro | Ala | Leu | Lys | Ser | Glu | Glu | Lys | Thr | Pro | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Pro | Gly | Asp | Gly | Arg | Lys | Val | Thr | Phe | Phe | Glu | Pro | Gly | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asp | Glu | Asn | Gly | Thr | Ser | Asn | Lys | Glu | Asp | Glu | Phe | Arg | Met | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Leu | Ser | His | Gln | Gln | Leu | Pro | Ala | Gly | Ile | Leu | Pro | Met | Val | Pro |
| | | | | 85 | | | | | 90 | | | | | 95 | |

5732

Glu Val Ala Gln Ala Val Gly Val Ser Gln Gly His His Thr Lys Asp
100 105 110

Phe Thr Arg Ala Ala Pro
115

<210> 6483

<211> 96

<212> PRT

<213> Homo sapiens

<220>

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<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (4)

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5733

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<400> 6483
Xaa Xaa Gly Xaa Pro Ala Gly Thr Arg Ser Gly Ile Pro Gly Ser Thr
1 5 10 15
His Ala Pro Phe Xaa Xaa Xaa Gly Ala Ala Leu Xaa Ala Gly Gly Ile
20 25 30
Trp Xaa Xaa Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu

5734

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| 35 | | | | | | 40 | | | | | | 45 | | | | | |
| Xaa | Xaa | Ser | Ala | Met | Gln | Xaa | Val | Asn | Val | Gly | Tyr | Xaa | Leu | Ile | Ala | | |
| 50 | | | | | 55 | | | | | 60 | | | | | | | |
| Ala | Gly | Val | Val | Val | Phe | Ala | Leu | Gly | Xaa | Leu | Gly | Xaa | Tyr | Gly | Ala | | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | | |
| Lys | Thr | Glu | Ser | Lys | Xaa | Ala | Leu | Val | Thr | Tyr | Phe | Tyr | Ile | Leu | Leu | | |
| 85 | | | | | 90 | | | | | 95 | | | | | | | |

<210> 6484

<211> 83 .

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6484

[illegible]

<210> 6485

<211> 94

<212> PRT

<213> Homo sapiens

5735

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 <222> (93)
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<220>
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 <222> (94)
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<400> 6485
 Phe Asn Tyr Xaa Leu Asp Cys Leu Gly Asn Gly Arg Thr Glu Cys His
 1 5 10 15
 Cys Gly Ala Xaa Asn Cys Ser Gly Phe Leu Gly Val Arg Pro Lys Ser
 20 25 30
 Ala Cys Ala Xaa Thr Asn Glu Glu Lys Ala Lys Asn Ala Lys Leu Lys
 35 40 45
 Gln Lys Arg Arg Lys Ile Lys Thr Glu Pro Lys His Met His Glu Asp
 50 55 60
 Tyr Cys Phe Gln Cys Gly Asp Gly Gly Xaa Leu Val Met Cys Asp Lys
 65 70 75 80

Lys Xaa Cys Pro Lys Tyr Thr Thr Phe Leu Leu Pro Xaa Xaa
85 90

Arg Asp Ser Glu Ile Met Gln Gln Lys Gln Lys Lys Ala Asn Glu Lys
50 55 60

5737

Lys Glu Glu Pro Lys
65

<210> 6488

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6488

Arg Lys Xaa Leu Ile Gln Arg Leu Leu Met Lys Asp Pro Lys Lys Arg
1 5 10 15

Leu Gly Cys Gly Pro Arg Asp Ala Asp Glu Ile Lys Glu His Leu Phe
20 25 30

Phe Gln Lys Ile Asn Trp Asp Asp Leu Ala Ala Lys Lys Val Pro Ala
35 40 45

Pro Phe Lys Pro Val Ile Arg Asp Glu Leu Asp Val Ser Asn Phe Ala
50 55 60

Glu Glu Phe Thr Glu Met Asp Pro Thr Tyr Ser Pro Ala Ala Leu Pro
65 70 75 80

Gln Ser Ser Glu Glu Ala Val Ser Gly Leu Phe Phe Val Ala Pro Ser
85 90 95

Ile Leu Phe Lys Arg Asn Ala Ala Val Ile Asp Pro Leu Gln Phe His
100 105 110

Met Gly Val Glu Arg Leu Glu
115

<210> 6489

<211> 88

<212> PRT

<213> Homo sapiens

<400> 6489

Gln Arg Phe Phe Gly Glu Val Leu Leu Tyr Phe Gln Met Ser Gln Ser
1 5 10 15

5738

Asp Asp Arg Asp Ser Lys Arg Asp Ser Leu Glu Glu Gly Glu Leu Arg
 20 25 30
 Asp His Arg Met Glu Ile Thr Ile Arg Asn Ser Pro Tyr Arg Arg Glu
 35 40 45
 Asp Ser Met Glu Asp Ile Ser Pro Gln Leu Pro Leu Leu Thr Arg Thr
 50 55 60
 Ser Cys Pro Ser Cys Leu His Leu Ser Val Pro Leu Glu Trp Met Ala
 65 70 75 80
 Gly Gly Glu Val Glu Ala Asp Ser
 85

<210> 6490

<211> 153

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6490

Glu Leu Ser Ser Val Val Ser Ser Ser Gly Thr Glu Gly Ala Ser Ser
 1 5 10 15
 Leu Glu Lys Lys Glu Val Pro Gly Val Asp Phe Ser Ile Thr Gln Phe
 20 25 30
 Val Arg Asn Leu Gly Leu Glu His Leu Met Asp Ile Phe Xaa Arg Glu
 35 40 45
 Gln Ile Thr Leu Asp Val Leu Val Glu Met Gly His Lys Glu Leu Lys
 50 55 60
 Glu Ile Gly Ile Asn Ala Tyr Gly His Arg His Lys Leu Ile Lys Gly
 65 70 75 80
 Val Glu Arg Leu Ile Ser Gly Gln Gln Gly Leu Asn Pro Tyr Leu Thr
 85 90 95
 Leu Asn Thr Ser Gly Ser Gly Thr Ile Leu Ile Asp Leu Ser Pro Asp
 100 105 110
 Asp Lys Glu Phe Gln Ser Val Glu Glu Glu Met Gln Ser Thr Val Arg
 115 120 125

5739

Glu His Arg Asp Gly Gly His Ala Gly Gly Ile Phe Asn Arg Tyr Asn
 130 135 140

Ile Leu Lys Ile Gln Lys Val Cys Asn
 145 150

<210> 6491

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

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<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6491

Val Gln Ser Gly Ala Glu Xaa Lys Xaa Ser Gly Glu Ser Leu Ser Ile
 1 5 10 15

Ser Cys Gln Val Ser Gly Tyr Thr Leu Thr Ser Tyr Trp Ile Asn Trp
 20 25 30

5740

Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met Gly Arg Leu Asp
35 40 45

Pro Ser Asp Ser Phe Ile Asn Tyr Asn Pro Ser Phe Glu Gly His Ile
50 55 60

Ser Ile Ser Ala Asp Lys Phe Ile Ser Thr Ala Tyr Leu Lys Trp Asn
65 70 75 80

Thr Leu Glu Ala Ser Asp Thr Ala Met Tyr Tyr Cys Ala Leu Ser Gly
85 90 95

Arg Gln Gln Leu Val Pro Val Tyr Trp Gly Gln Gly Thr Gln Val Xaa
100 105 110

Arg Leu Leu Xaa Asn Pro Xaa Gln Xaa Gln Arg Leu Ser Ala Glu Pro
115 120 125

Leu

<210> 6492

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

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<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

5741

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

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<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

5742

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<220>
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 <222> (84)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6492
 Leu Xaa Lys Phe Ser Val Arg Phe Lys Glu Asn Ser Val Ala Val Lys
 1 5 10 15
 Val Val Gln Gly Pro Ala Gly Gly Asp Asn Xaa Lys Xaa Arg Tyr Lys
 20 25 30
 Lys Lys Gly Ser His Cys Leu Xaa Val Thr Xaa Gln Leu Gly Gly Gly
 35 40 45
 Thr Met Gln Arg Trp Xaa Xaa Leu Pro Pro Glu Pro Ala Leu Ile Xaa
 50 55 60
 Leu Xaa Pro Xaa Phe Phe Gly Gly Xaa Phe Xaa Xaa Xaa Xaa Gly
 65 70 75 80
 Gly Xaa Gly Xaa Gly Val
 85

<210> 6493
 <211> 31
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

5744

130

135

<210> 6495

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6495

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser | Thr | Ala | Val | Xaa |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn | Ser | Ala | Arg |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Leu | Asn | Lys | Met | Asp | Gly | Ser | Arg | Lys | Glu | Glu | Glu | Glu | Asp |
| | 35 | | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Phe | Thr | Asn | Ile | Ser | Leu | Ala | Asp | Asp | Ile | Asp | His | Ser | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ile | Leu | Tyr | Pro | Arg | Pro | Lys | Ser | Leu | Leu | Pro | Lys | Met | Met | Asn |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asp | Met | Asp | Asp | Leu | Ser | Ala | Arg | Val | Asp | Ala | Val | Lys | Glu | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Lys | Leu | Lys | Ser | Glu | Asn | Gln | Val | Leu | Xaa | Gln | Tyr | Ile | Glu |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Met | Ser | Ala | Ser | Ser | Val | Phe | Gln | Thr | Thr | Asp | Thr | Lys | Ser |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | |
|-----|-----|-----|
| Lys | Arg | Lys |
| | | 130 |

<210> 6496

<211> 44

5745

<212> PRT

<213> Homo sapiens

<400> 6496

Ile Asn Ile His Lys Cys Tyr Phe Leu Phe Leu Tyr Phe Ile Phe Phe
1 5 10 15

Ser Pro Phe Gln Ile Leu Gly Val Trp Leu Thr Tyr Arg Tyr Arg Asn
20 25 30

Gln Lys Asp Pro Arg Ala Asn Pro Ser Ala Phe Leu
35 40

<210> 6497

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (17)

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<220>

<221> SITE

<222> (53)

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<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

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5746

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<222> (89)
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<220>
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<222> (93)
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<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6497
Trp Xaa Glu Ser Gly Leu Pro Ala Val Ala Ala Thr Leu Lys Leu Xaa
1 5 10 15

Xaa Pro Pro Gly Cys Met Asn Ser Ala Arg Gly Leu Leu Arg Thr Leu
20 25 30

His Gly Ala Arg His Met Val Arg Asp Ala Pro Glu Ile Pro Gln Gly
35 40 45

Gly Ser Pro Ala Xaa Cys Ser Xaa Phe Arg Pro Asn Pro Glu Leu Thr
50 55 60

5747

Glu Ala Leu Thr Thr Ser Phe Val Arg Arg Leu Phe Trp Gly Ser Xaa
 65 70 75 80

Gly Ala Xaa Thr Pro Leu Ala Glu Xaa Leu Arg Thr Xaa Ser Ala Ser
 85 90 95

Ser Ser Asp Pro Val Ser Ala Pro Xaa Ser Leu Thr Ala Glu Xaa Xaa
 100 105 110

Xaa Gln Pro Ser Ser Tyr Xaa Gly Thr Pro Arg Phe Leu Arg Ile Pro
 115 120 125

Glu

<210> 6498

<211> 104

<212> PRT

<213> Homo sapiens

<400> 6498

Pro Arg Val Arg Glu Asp Glu Gln Phe Pro Ser Ile Pro Ala Leu Val
 1 5 10 15

His Ser Tyr Met Thr Gly Arg Arg Pro Leu Ser Gln Ala Thr Gly Ala
 20 25 30

Val Val Ser Arg Pro Val Thr Trp Gln Gly Pro Leu Arg Arg Ser Phe
 35 40 45

Ser Glu Asp Thr Leu Met Asp Gly Pro Ala Arg Ile Glu Pro Ile Arg
 50 55 60

Ala Arg Lys Trp Ser Asn Ser Gln Pro Ala Asp Leu Ala His Met Gly
 65 70 75 80

Gln Ser Arg Glu Asp Pro Ala Gly Met Glu Ala Ser Thr Met Pro Ile
 85 90 95

Ser Ala Leu Pro Arg Thr Ser Ser
 100

<210> 6499

<211> 190

<212> PRT

<213> Homo sapiens

5748

<220>
<221> SITE
<222> (57)
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<220>
<221> SITE
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<222> (185)
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<220>
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<222> (186)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6499
Ala Ser Gly Thr Trp Asn Ala Pro Ala Gly Trp Cys Pro Gly Val Leu
1 5 10 15
Ser Pro Leu Leu Pro Thr Ser Ala Gly Pro Val Ser Ser Cys Ala Gln
20 25 30
Cys Gly Pro Val Ser Ala Pro Ala Ala Leu Ser Pro Pro His Ala Gly
35 40 45

5749

Ser Arg Pro Gly His Arg Ala Val Xaa Cys Phe Pro Thr Ala Ala Gly
 50 55 60
 Thr Ala Arg His Thr Gln Gly Leu Gly Arg Ala Gly Gly His Thr Ala
 65 70 75 80
 Trp Leu Ser Cys Ser Trp Ser Pro Ala Ser Pro Arg Arg Pro Gly Gly
 85 90 95
 Ser Ile Ser Gln Glu Ala Arg Ser Pro Pro Gly Gly Trp Ala Gln Pro
 100 105 110
 Arg Gln Met Asp Glu Lys Thr Xaa Lys Ala Xaa Glu Met Ala Leu Ser
 115 120 125
 Leu Thr Arg Ala Val Ala Gly Gly Asp Glu Gln Val Ala Met Lys Cys
 130 135 140
 Ala Ile Trp Leu Ala Glu Gln Arg Val Pro Leu Ser Val Gln Leu Lys
 145 150 155 160
 Pro Glu Val Ser Pro Thr Gln Asp Ile Arg Phe Leu Met Xaa Gln Asn
 165 170 175
 Gly His Ser Ser Xaa Ile Gln Pro Xaa Xaa Xaa Gln Gly Gly
 180 185 190

<210> 6500

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

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<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5750

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

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<222> (67)

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<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (72)

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<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6500

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ile | Pro | Ile | Leu | Asn | Pro | Phe | Xaa | Ile | Arg | Leu | Thr | Ile | Gly | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Thr | Pro | Ala | Gly | Thr | Gly | Pro | Glu | Phe | Pro | Gly | Arg | Pro | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Xaa | Ala | Xaa | Lys | Gln | Ala | Gly | Gln | Lys | Lys | Lys | Gln | Gly | His | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Lys | Ala | Ala | Xaa | Lys | Ala | Ala | Leu | Ile | Tyr | Thr | Cys | Thr | Val | Cys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Thr | Xaa | Met | Xaa | Asp | Pro | Xaa | Thr | Xaa | Lys | Gln | His | Phe | Glu | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Lys | His | Pro | Lys | Thr | Pro |
| | | | | | 85 |

5751

<210> 6501

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6501

Gln Met Arg Val Lys Asp Pro Thr Lys Ala Leu Pro Glu Lys Ala Lys
 1 5 10 15

Arg Ser Lys Arg Pro Thr Val Pro His Asp Glu Asp Ser Ser Asp Asp
 20 25 30

Ile Ala Val Gly Leu Thr Cys Gln His Val Ser His Ala Ile Ser Val
 35 40 45

Asn His Val Lys Arg Ala Ile Ala Glu Asn Leu Trp Ser Val Cys Ser
 50 55 60

Glu Cys Leu Lys Glu Arg Gly Phe Tyr Asp Gly Gln Leu Val Leu Thr
 65 70 75 80

Ser Asp Ile Trp Leu Cys Leu Lys Cys Gly Phe Gln Gly Cys Gly Lys
 85 90 95

Asn Ser Xaa Ser Gln His Ser
 100

<210> 6502

<211> 92

<212> PRT

<213> Homo sapiens

<400> 6502

Ile Leu Lys Val Gly Ala Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly
 1 5 10 15

Ile Ser Thr Pro Ser Phe Ser Ser Tyr Tyr Lys Gly Gly Phe Glu Gln
 20 25 30

Lys Met Ser Arg Arg Glu Ala Gly Leu Ile Leu Gly Val Ser Pro Ser
 35 40 45

5752

Ala Gly Lys Ala Lys Ile Arg Thr Ala His Arg Arg Val Met Ile Leu
 50 55 60

Asn His Pro Asp Lys Gly Gly Ser Pro Tyr Val Ala Ala Lys Ile Asn
 65 70 75 80

Glu Ala Lys Asp Leu Leu Glu Thr Thr Thr Lys His
 85 90

<210> 6503

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6503

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Glu Glu Ser Met Asn
 1 5 10 15

Glu Ser His Pro Arg Lys Cys Ala Glu Ser Phe Glu Met Trp Asp Asp
 20 25 30

Arg Asp Ser His Cys Arg Arg Pro Lys Phe Glu Gly His Pro Pro Glu
 35 40 45

Ser Trp Lys Trp Ile Leu Ala Pro Val Ile Leu Tyr Ile Cys Glu Arg
 50 55 60

Ile Leu Arg Phe Tyr Arg Ser Gln Gln Lys Val Val Ile Thr Lys Val
 65 70 75 80

Val Met His Pro Ser Lys Val Leu Glu Leu Gln Met Asn Lys Arg Gly
 85 90 95

Phe Ser Met Glu Val Gly Gln Tyr Ile Phe Val Asn Cys Pro Ser Ile
 100 105 110

Ser Leu Leu Gly Met Ala Ser Phe Tyr Phe Asp Leu Cys Ser Arg Gly
 115 120 125

Arg Phe Leu Leu His Ser Tyr Xaa Ser Ser Arg Gly Leu Asp Arg Lys
 130 135 140

Ser Ile Arg

5753

145

<210> 6504

<211> 137

<212> PRT

<213> Homo sapiens

<400> 6504

Glu Gly Asn Arg Ser Asp Val Thr Ser Val Lys Asp Ala Lys Ile Ala
 1 5 10 15

Val Tyr Ser Cys Pro Phe Asp Gly Met Ile Thr Glu Thr Lys Gly Thr
 20 25 30

Val Leu Ile Lys Thr Ala Glu Glu Leu Met Asn Phe Ser Lys Gly Glu
 35 40 45

Glu Asn Leu Met Asp Ala Gln Val Lys Ala Ile Ala Asp Thr Gly Ala
 50 55 60

Asn Val Val Val Thr Gly Gly Lys Val Ala Asp Met Ala Leu His Tyr
 65 70 75 80

Ala Asn Lys Tyr Asn Ile Met Leu Val Arg Leu Asn Ser Lys Trp Asp
 85 90 95

Leu Arg Arg Leu Cys Lys Thr Val Gly Ala Thr Ala Leu Pro Arg Leu
 100 105 110

Thr Pro Pro Val Leu Glu Glu Met Gly His Cys Asp Ser Val Tyr Ser
 115 120 125

Pro Glu Val Trp Arg Tyr Ser Gly Gly
 130 135

<210> 6505

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5754

<222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (57)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (99)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (108)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6505
 Leu Gln Leu Xaa Ser Xaa Gly Gly Lys Lys Arg Pro Leu Gly Phe Asn
 1 5 10 15
 Pro Ala Pro Phe Gly Pro Lys Gly Phe Asn Pro Arg Gly Xaa Pro Pro
 20 25 30
 Gly Lys Asn Phe Ser Pro Gly Gly Gly Xaa Arg Asn Pro Gln Thr Xaa
 35 40 45
 Pro Phe Pro Arg Gly Pro Gly Gly Xaa Pro Glu Thr Xaa Phe Gly Lys
 50 55 60

5755

Lys Pro Pro Ile Gly Gly Pro Arg Ala Leu Pro Val Ser Gln Arg Glu
 65 70 75 80

Thr Phe Ser Pro Thr Pro Lys Arg Thr Trp Phe Trp Gly Phe Leu Asn
 85 90 95

Pro Gly Xaa Pro Thr Lys Thr Arg Val Cys Pro Xaa Ala
 100 105

<210> 6506

<211> 133

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6506

Ala Ala Ala Glu His Arg Arg Gly Arg Lys Lys Asp Glu Val Arg Glu
 1 5 10 15

Gly Ala Gly Phe Leu Glu Pro Gln Gly Ser Thr Glu Leu Ser Lys Xaa
 20 25 30

Val Pro Val Asn Trp Glu Pro Pro Gln Pro Leu Pro Phe Pro Lys Tyr
 35 40 45

Leu Arg Cys Tyr Arg Cys Leu Leu Glu Thr Lys Glu Leu Gly Cys Leu
 50 55 60

Leu Gly Ser Asp Ile Cys Leu Thr Pro Ala Gly Ser Ser Cys Ile Thr
 65 70 75 80

Leu His Lys Lys Asn Ser Ser Gly Ser Asp Val Met Val Ser Asp Cys
 85 90 95

Arg Ser Lys Glu Gln Met Ser Asp Cys Ser Asn Thr Arg Thr Ser Pro
 100 105 110

Val Ser Gly Phe Trp Ile Phe Ser Gln Tyr Cys Phe Leu Asp Phe Cys
 115 120 125

5756

Asn Asp Pro Xaa Asn
130

<210> 6507

<211> 45

<212> PRT

<213> Homo sapiens

<400> 6507

Ser Cys Thr Met Pro Ser Ser Ile Ile Thr Leu Lys Asn Gly Ile Gln
1 5 10 15

Asn Met Leu Gln Phe Tyr Ile Pro Glu Val Glu Gly Val Glu Gln Val
20 25 30

Met Asp Asp Glu Ser Asp Glu Lys Glu Ala Asn Ser Pro
35 40 45

<210> 6508

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6508

Ser Ala Pro Lys Ala Pro Ala Thr Pro Gly Ala Gln Xaa Ala Pro Asp
1 5 10 15

Val Arg Leu Leu Tyr Val Leu Ala Ile Ala Ala Leu Gly Gly Leu Cys
20 25 30

Leu Ile Leu Ala Ser Ser Leu Leu Tyr Val Ala Cys Leu Arg Glu Gly
35 40 45

Arg Arg Gly Arg Arg Arg Lys Tyr Ser Leu Gly Arg Ala Asn Xaa Gly
50 55 60

Arg Arg Ile Cys Gly Ala Thr Ala

5757

65

70

<210> 6509

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6509

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Val | Ser | Xaa | Phe | Ser | Asn | Pro | Val | Gln | Tyr | Trp | Glu | Ile | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Thr | Phe | Arg | Cys | Val | Tyr | Val | Arg | Ser | Ala | Ile | Gln | Leu | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | |
|-----|-----|-----|
| Asn | Tyr | Lys |
| | | 35 |

<210> 6510

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

5758

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (109)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6510
 Asn Ser Ala Arg Ala Ser Ala Leu Lys Gln Tyr Xaa Arg Ser Leu Pro
 1 5 10 15
 Glu Pro Leu Met Thr Tyr Glu Leu His Gly Asp Phe Ile Val Pro Ala
 20 25 30
 Lys Ser Gly Ser Pro Glu Ser Xaa Val Asn Ala Ile His Phe Leu Val
 35 40 45
 His Lys Leu Pro Glu Lys Asn Lys Glu Met Leu Asp Ile Leu Val Lys
 50 55 60
 His Leu Thr Asn Val Xaa Asn Xaa Ser Lys Gln Asn Xaa Xaa Thr Val
 65 70 75 80
 Ala Asn Leu Gly Val Val Phe Gly Pro Thr Leu Met Arg Pro Gln Glu
 85 90 95
 Glu Thr Val Ala Ala Leu Met Asp Phe Glu Val Ser Xaa Tyr Cys Cys
 100 105 110
 Gly Lys Ser
 115

<210> 6511
 <211> 129
 <212> PRT
 <213> Homo. sapiens

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

5759

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6511

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gly | Asn | Lys | Met | Gln | Asp | Pro | Asn | Ala | Asp | Thr | Glu | Trp | Asn | Asp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Leu | Arg | Lys | Lys | Gly | Ile | Leu | Pro | Pro | Lys | Glu | Ser | Leu | Lys | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Glu | Glu | Glu | Ala | Glu | Glu | Glu | Gln | Arg | Ile | Leu | Gln | Gln | Ser | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Lys | Thr | Tyr | Glu | Asp | Met | Thr | Leu | Glu | Glu | Leu | Glu | Asp | His | Glu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Glu | Phe | Asn | Glu | Glu | Asp | Glu | Arg | Ala | Ile | Glu | Met | Tyr | Arg | Arg |
| 65 | | | | | | 70 | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Leu | Ala | Glu | Trp | Lys | Ala | Thr | Lys | Leu | Lys | Asn | Lys | Phe | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Leu | Glu | Ile | Ser | Xaa | Lys | Asp | Tyr | Val | Gln | Glu | Val | Thr | Lys |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Glu | Gly | Leu | Xaa | Val | Ile | Leu | His | Leu | Tyr | Asn | Gln | Gly | Ile |
| | | | 115 | | | | 120 | | | | | 125 | | | |

Pro

<210> 6512

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

5760

<400> 6512

Phe Glu Lys Tyr Met Leu Thr Val Gln Tyr Phe Ser Ile Ile Phe Pro
 1 5 10 15

Leu Phe Tyr Arg Ala Asn Val Lys Pro Arg Asn Ser Thr Pro Pro Ser
 20 25 30

Leu Ala Arg Asn Pro Ala Pro Gly Val Leu Thr Asn Lys Arg Lys Thr
 35 40 45

Tyr Thr Glu Ser Tyr Ile Ala Arg Pro Asp Gly Asp Cys Ala Ser Ser
 50 55 60

Leu Asn Gly Gly Asn Ile Lys Gly Ile Glu Gly His Ser Pro Gly Asn
 65 70 75 80

Leu Pro Lys Phe Cys His Glu Cys Gly Thr Lys Tyr Pro Val Glu Xaa
 85 90 95

Ala Lys Phe Cys Xaa Glu Cys Gly Ile Arg Arg Met Ile Leu
 100 105 110

<210> 6513

<211> 75

<212> PRT

<213> Homo sapiens

<400> 6513

Val Pro Ala Ala Gly Thr Pro Arg Ala Asn Gln Pro Gly Phe Arg Lys
 1 5 10 15

His Leu Gly Leu Leu Glu Lys Lys Lys Asp Tyr Lys Leu Arg Ala Asp
 20 25 30

Asp Tyr Arg Lys Lys Gln Glu Tyr Leu Arg Ala Leu Arg Lys Lys Ala
 35 40 45

Leu Glu Lys Asn Pro Asp Glu Phe Tyr Tyr Lys Met Thr Arg Val Lys
 50 55 60

Leu Gln Asp Gly Phe His Val Ile Glu Gly Asp
 65 70 75

<210> 6514

<211> 70

<212> PRT

<213> Homo sapiens

5761

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6514
 Xaa Val Phe Glu Xaa Xaa Ala Pro Gly Xaa Tyr Lys Phe Tyr Leu Gln
 1 5 10 15
 Asn Arg Ser Leu Pro Gln Ser Xaa Pro Val Leu Lys Val Thr Leu Ala
 20 25 30
 Val Ser Asp Leu Gln Lys Ser Leu Asn Tyr Trp Cys Tyr Leu Leu Gly
 35 40 45
 Met Lys Ile Tyr Glu Lys Tyr Tyr Lys Ser Tyr Arg Ala Cys Leu Gly
 50 55 60
 Phe Leu Lys Asn Pro Cys
 65 70

<210> 6515
 <211> 122
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

5762

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6515

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Trp | Tyr | Pro | Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Val | Glu | Leu | Asn | Glu | Leu | Leu | Leu | Asp | Lys | Asn | Gln | Glu | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Trp | Arg | Glu | Thr | Ala | Arg | Trp | Ile | Lys | Phe | Glu | Glu | Asp | Val | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asp | Ala | His | Asp | Ser | Glu | Ala | Lys | Val | Ala | Ser | Leu | Arg | Gly | Met |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Leu | Gln | Gly | Cys | Ala | Ser | Thr | Gln | Val | Glu | Ser | Xaa | Asn | Asn | Gln |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Gln | Lys | Gln | Val | Arg | Leu | Pro | Glu | Ser | Arg | Leu | Thr | Pro | Trp |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Xaa | Phe | Ile | Gly | Xaa | Glu | Lys | Glu | Glu | Arg | Asp | Arg | Leu | His |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Ala | Xaa | Glu | Glu | Leu | Asn | Gln | Xaa |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5763

115

120

<210> 6516

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6516

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Arg | Val | Arg | Pro | Arg | Val | Arg | Glu | Asn | Glu | Tyr | Gln | Ala | Xaa | Ser |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Pro | Pro | Thr | Arg | Leu | Leu | Ile | Lys | Glu | Pro | Ser | Lys | Arg | Val | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Phe | Arg | Gly | Leu | Gln | Asn | Trp | Lys | Ala | Xaa | Ser | Phe | Thr | Met |
| | | 35 | | | | | 40 | | | | | 45 | | |

<210> 6517

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

5764

<400> 6517

Gly Gly Xaa Xaa Gly Xaa Pro Leu Tyr Leu His Leu Leu Met Ser Leu
 1 5 10 15
 His Arg Ala Arg Leu Glu Ser Ser Ser Thr Gly Ser Ser Phe Pro Ala
 20 25 30
 Asp Ser Ala Lys Pro Val Pro Leu Ala Val Val Ser Leu Asp Ser Arg
 35 40 45

<210> 6518

<211> 31

<212> PRT

<213> Homo sapiens

<400> 6518

Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Thr Thr Ala Leu Glu Leu
 1 5 10 15
 Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Glu Gln Asn Gln Trp
 20 25 30

<210> 6519

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6519

Ala Xaa Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala
 1 5 10 15
 Val Thr Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser
 20 25 30

5765

Ala Arg Gly Tyr Thr Gly Asn Gly
 35 40

<210> 6520

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6520

Xaa Xaa His Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
 1 5 10 15

Ala Val Xaa Ser Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
 20 25 30

Ser Ala Arg Ser Ala Arg Ala Lys Asp Thr Asn Leu Val Phe Pro Gly
 35 40 45

Ile Glu Gln Gln Ala Phe Gln Asp Cys His Pro
 50 55

<210> 6521

<211> 66

<212> PRT

<213> Homo sapiens

<220>

5766

<221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6521
 Gly Phe Xaa Xaa Leu Thr Arg Ile Thr Leu Thr Lys Gly Asn Lys Ser
 1 5 10 15
 Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro
 20 25 30
 Gly Cys Arg Asn Ser Ala Arg Ala Leu Ser Arg Pro Phe Ser Xaa Cys
 35 40 45
 Pro Arg Ala Xaa Thr Ala Pro Arg Xaa Arg Arg Trp Asn Ala Arg Thr
 50 55 60
 Xaa Gly
 65

 <210> 6522
 <211> 41
 <212> PRT
 <213> Homo sapiens

5767

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6522
 Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Asn Glu Ser Tyr
 1 5 10 15
 Tyr Asn Ser Leu Ala Val Val Leu Gln Xaa Arg Asp Trp Glu Asn Pro
 20 25 30
 Xaa Thr Xaa Pro Ser Xaa Xaa Gly Pro
 35 40

<210> 6523
 <211> 68
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (7)

5768

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6523

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Xaa | Gln | Lys | Leu | Ala | Xaa | Pro | Pro | Gln | Val | Ala | Ala | Ala | Leu | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn | Ser | Ala | Arg | Ala | Ala | Arg | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Gly | Gly | Ala | Arg | Tyr | Pro | Ile | Arg | Pro | Ile | Val | Ser | Arg | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | His | Trp | Pro | Ser | Phe | Xaa | Asn | Val | Val | Thr | Gly | Lys | Thr | Gln |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | |
|-----|-----|-----|-----|
| Xaa | Xaa | Xaa | Ile |
| | | | 65 |

<210> 6524

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5769

<221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6524
 Leu Val Pro Lys Gly Gly Pro Val Pro Asn Ser Pro Tyr Xaa Glu Ser
 1 5 10 15
 Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Lys
 20 25 30
 Pro Xaa Xaa Xaa
 35

 <210> 6525
 <211> 33
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6525
 Ala Ala Arg Gly Gly Pro Gly Thr Asn Ser Pro Tyr Ser Glu Ser Tyr
 1 5 10 15
 Tyr Asn Ser Leu Ala Val Val Leu Asn Val Val Thr Gly Pro Xaa Xaa

5770

20

25

30

Xaa

<210> 6526

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6526

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser | Thr | Ala | Val | Ala |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Leu | Glu | Leu | Val | Gly | Ala | Arg | Tyr | Pro | Ile | Arg | Pro | Ile | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Arg | Ile | Thr | Ile | His | Trp | Pro | Ser | Phe | Tyr | Asn | Val | Val | Thr | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Lys | Thr | Gln | Xaa | Xaa | Xaa |
| | | | | | 50 |

<210> 6527

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

5771

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6527

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ser | Pro | Leu | Arg | Lys | Val | Pro | Ser | Leu | Lys | Gly | Asn | Lys | Ser | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Thr | Ala | Val | Xaa | Val | Val | Leu | Gln | Leu | Val | Asp | Pro | Pro | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Arg | Asn | Ser | Val | Arg | Ala | Arg | Asp | Xaa | Pro | Met | Lys | Ser | Gly | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Phe | Ile | His | Trp | Lys | Cys | Cys | Val | Xaa | Ala | Xaa | Xaa | Lys | Xaa | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Xaa | Thr | Ser | Glu | Glu |
| 65 | | | | |

<210> 6528

<211> 36

5772

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6528

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Ser | Gly | Thr | Arg | Gly | Gly | Pro | Val | Pro | Asn | Ser | Pro | Tyr | Xaa |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ser | Tyr | Tyr | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Xaa | Asp | Trp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | |
|-----|-----|-----|-----|
| Glu | Thr | Xaa | Lys |
| | | | 35 |

<210> 6529

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6529

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Xaa | Lys | Arg | Asn | Lys | Ser | Trp | Ser | Ser | Thr | Ala | Val | Ala | Ala |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn | Ser | Ala | Arg | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

5773

Ala Arg Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val
35 40 45

Ser Arg Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Ile Pro
50 55 60

Pro Lys Lys Xaa
65

<210> 6530

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6530

Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Xaa Glu Ser Tyr
1 5 10 15

Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Xaa
20 25 30

Asn

<210> 6531

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5774

<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6531
Gly Thr Ser Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Xaa
1 5 10 15
Glu Ser Tyr Xaa Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp
20 25 30
Glu Asn Pro Xaa
35

<210> 6532
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5775

<221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6532
 Gly Xaa Ile Trp Xaa Xaa Ser Thr Lys Lys Trp Arg Phe Ala Leu Glu
 1 5 10 15
 Leu Val Asp Pro Pro Gly Cys Arg Asn Pro Ala Arg Ala Xaa Thr Arg
 20 25 30
 Gly Gly Pro Val Pro Xaa Ser Pro Tyr Ser Glu Ser Xaa Tyr Asn Ser
 35 40 45
 Leu Xaa Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro
 50 55 60

 <210> 6533
 <211> 49
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE

5776

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6533

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Val | Ser | Ser | Xaa | Ile | Lys | Gly | Thr | Xaa | Gly | Pro | Ala | Pro | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Val | Ala | Phe | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Xaa | Arg | Ala | Xaa | Xaa | Gly | Gly | Ala | Arg | Phe | Pro | Ile | Arg | Pro | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |

Xaa

<210> 6534

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

5777

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6534

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Arg | Gly | Gly | Pro | Val | Pro | Asn | Ser | Pro | Tyr | Xaa | Glu | Ser | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Leu | Asp | Trp | Glu | Asn | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Xaa | Phe | Leu | Cys | Xaa | Phe | Xaa | Xaa |
| | | 35 | | | | | 40 | |

<210> 6535

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6535

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Ser | Gly | Thr | Arg | Gly | Gly | Pro | Val | Pro | Asn | Ser | Pro | Tyr | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ser | Tyr | Tyr | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp | Trp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | |
|-----|-----|-----|-----|
| Glu | Asn | Pro | Lys |
| | | 35 | |

<210> 6536

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

5778

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6536
 Xaa Gly Thr Xaa Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr
 1 5 10 15
 Xaa Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp
 20 25 30
 Trp Glu Asn Pro Xaa Xaa Phe Pro
 35 40

<210> 6537
 <211> 62
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

5779

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6537

Leu Lys Ala Pro Xaa Gly Thr Arg Gly Xaa Arg Arg Ser Ile Ser Ser
1 5 10 15

Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Gly Pro Arg Gly Gly
20 25 30

Pro Val Pro Ser Ser Xaa Phe Ser Glu Ser Tyr Tyr Asn Ser Leu Ala
35 40 45

Val Val Leu Gln Arg Arg Xaa Trp Glu Asn Pro Cys Leu Leu
50 55 60

<210> 6538

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

5780

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6538
Arg Arg Xaa Gly Glu Xaa Cys Ser Xaa Ile Asn Pro Gln Ile Xaa Gly
1 5 10 15
Lys Lys Ile Trp Ser Ser Thr Ala Val Ala Asp Ala Leu Xaa Leu Val
20 25 30
Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Ala Arg Gly Gly Ala
35 40 45
Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg Ile Thr Ile His Trp Pro
50 55 60
Ser Phe Tyr Asn Val Val Thr Gly Lys Thr Gln Xaa Xaa Xaa Xaa Gly
65 70 75 80

<210> 6539
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

5781

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6539
Xaa Gly Xaa Glu Gly Tyr Ile Arg Leu Ala Xaa Gln Leu Thr Leu Xaa
1 5 10 15
Asn Gly Asn Lys Thr Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu
20 25 30
Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Xaa Xaa Xaa
35 40 45

<210> 6540
<211> 107
<212> PRT
<213> Homo sapiens

<220>

5782

<221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (95)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (100)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (102)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6540
 Phe Xaa Ser Pro Gly Cys Arg Asn Ser Ile Ser Ser Leu Ser Ile Pro
 1 5 10 15
 Xaa Thr Ser Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser
 20 25 30
 Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn
 35 40 45
 Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala Gln Ser Pro Phe Xaa
 50 55 60
 Gln Leu Gly Val Ile Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln
 65 70 75 80
 Gln Leu Arg Ser Leu Asn Gly Glu Trp Asp Ala Pro Cys Ser Xaa Ala
 85 90 95
 Leu Ser Ala Xaa Val Xaa Trp Leu Pro Ala Val
 100 105

5783

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<400> 6541

| | | | | | | | | | | | | | | | |
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| Xaa | Lys | Val | Xaa | Ala | Thr | Arg | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Val | Ala | Ala | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ala | Arg | Asp | Phe | Gln | Val | Asp | Phe | Ser | Ala | Ser | Ser | Lys | Thr |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Cys | Phe | Phe | Ser | Gly | Leu | Thr | Leu | Cys | Gly | Phe | Phe | Phe | Phe | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | |
|-----|-----|-----|-----|
| Leu | Asn | Leu | Ile |
| | | | 65 |

<210> 6542

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Asn Ser Ile Ser Ser Leu Ser Ile Pro Ser Thr Ser Arg Gly Gly Pro
20 25 30

5785

Val Pro Asn Ser Pro Tyr Xaa Glu Ser Xaa Tyr Asn Ser Leu Ala Val
 35 40 45
 Gly Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Xaa Thr Gln Leu Asn
 50 55 60
 Arg Xaa Xaa Gly His Pro Pro Phe Xaa Xaa Trp Arg Asn Ser Glu Glu
 65 70 75 80
 Ala Arg Thr Xaa Arg Leu Pro Thr Xaa Ala Gln Pro Glu Trp Arg Met
 85 90 95
 Gly Arg Ala Leu Tyr Gly Ala Leu Ser Arg Gly Gly Cys Gly
 100 105 110

<210> 6543

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| Asn | Ser | Ala | Arg | Gly | Phe | Ser | Gly | Ser | Gly | Ser | Gly | Thr | Glu | Phe | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Ile | Ser | Ser | Leu | Gln | Ala | Glu | Asp | Val | Ala | Ala | Tyr | Ser | Cys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Gln | Tyr | Tyr | Ser | Phe | Pro | Phe | Thr | Phe | Gly | Pro | Gly | Thr | Lys | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Lys | Arg | Thr | Val | Ala | Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Asn | Phe | Tyr | Pro | Xaa | Glu | Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Gln | Ser | Gly | Asn | Xaa | Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser |
| | | 100 | | | | | 105 | | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Asp | Arg | Xaa | Thr | Ala | Ser | Ala | Ala | Pro | Asp | Gly | Glu | Gln | Ser | Arg |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Gly | Glu | His | Lys | Phe | Arg | Leu | Arg | Val | Xaa | Xaa | Gln | Gly | Xaa | Xaa |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Arg | Xaa | Lys | Xaa | Leu | Thr | Gly | Xaa | Xaa | Xaa | Gly | Glu | Xaa | Pro | Leu |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Phe | Leu | Phe | Ser | Xaa | Pro |
| | | | | 165 | |

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<211> 143

<212> PRT

<213> Homo sapiens

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5788

<400> 6544

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Val Lys Ile Thr Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Tyr
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Cys Met Gln Ala Leu Gln Thr Pro Phe Thr Phe Gly Pro Gly Thr Lys
          20             25             30

Val Asp Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro
          35             40             45

Pro Ser Asp Glu Xaa Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu
          50             55             60

Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp
 65             70             75             80

Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp
          85             90             95

Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys
          100            105            110

Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln
          115            120            125

Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
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<211> 157

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5790

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<400> 6545

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Cys | Arg | Ile | Arg | His | Glu | Val | Leu | Arg | Gly | Pro | Leu | Leu | Gly | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Asp | Ala | Val | Trp | Gly | Leu | Ala | Tyr | Ser | Ala | Xaa | His | Gln | Arg | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Cys | Ser | Ala | Xaa | Gly | Thr | Leu | Arg | Leu | Trp | Asn | Thr | Thr | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Pro | Ala | Leu | Xaa | Val | Phe | Asn | Asp | Thr | Lys | Glu | Leu | Gly | Ile |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ala | Ser | Val | Asp | Leu | Xaa | Ser | Xaa | Asp | Pro | Ser | His | Xaa | Val | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Phe | Ser | Lys | Gly | Tyr | Thr | Asn | Ile | Phe | Asn | Met | Glu | Thr | Gln | Gln |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ile | Leu | Thr | Leu | Xaa | Ser | Asn | Val | Ile | Gln | Xaa | Pro | Thr | Leu | Pro |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Lys | Xaa | Ile | Xaa | Xaa | Ile | Xaa | Leu | Leu | Leu | Phe | Arg | Ser | Thr | Ser |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Ser | Leu | Lys | Xaa | Ala | Ile | Gln | Phe | Tyr | Xaa | Asn | Xaa | Ser | Gly | Lys |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ser | Leu | His | Gly | Xaa | Pro | Leu | Lys | Leu | Phe | Gln | Phe |
| 145 | | | | | 150 | | | | | 155 | | |

5791

<210> 6546

<211> 69

<212> PRT

<213> Homo sapiens

<400> 6546

Lys Trp Arg Leu Arg Ser Ala Pro Ala Glu Glu Gly Glu Ala Gly Gly
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Val Ser Val Leu Pro Val Cys Ser Thr Ala Pro Ala Ser Arg Thr Pro
20 25 30

Pro Ala His Ala Asp Phe Pro Ser Ser Ala Arg Leu Ser Leu Val Leu
35 40 45

Val Cys Ala Pro His Ala Pro Gly Arg Leu Val Ser His Cys Pro Ala
50 55 60

Arg Leu Arg Trp Pro
65

<210> 6547

<211> 89

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Arg | Ala | Asp | Xaa | Xaa | Lys | Leu | Xaa | His | Gln | Glu | Arg | Thr | Gln | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Arg | Gln | Ala | Pro | Val | Gly | Xaa | Gly | Tyr | Phe | His | Leu | Leu | Asp | His |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Xaa | Xaa | Ala | Xaa | Cys | Xaa | Ala | Asp | Phe | Arg | Gly | His | Trp | Val | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Phe | Phe | Gly | Phe | Thr | His | Cys | Pro | Asp | Ile | Cys | Pro | Gln | Gln | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Leu | Val | Gln | Val | Val | Arg | Glu | Leu | Xaa | Thr | Xaa | Leu | Val | Phe |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5793

65

70

75

80

Leu Gln Xaa Thr Cys Leu His His Cys
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Cys Pro Trp Pro Ala Leu Met Thr Arg Trp Thr Val Ser Leu Arg Ala
20 25 30

Pro Xaa Leu Ala Gln Leu Ser Asp Val Ala Met His Ser Leu Gly Xaa
35 40 45

Ala Phe Ile Tyr Xaa Gln Thr Asp Asp Ile Xaa Asp Val
50 55 60

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5795

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (148)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5797

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6549

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Arg | Pro | Glu | Val | Met | Ser | His | Lys | Xaa | Xaa | Ser | Ala | Pro | Arg | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Xaa | Xaa | Phe | Leu | Pro | Arg | Lys | Arg | Xaa | Thr | Xaa | Xaa | Arg | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Val | Xaa | Ile | Phe | Pro | Lys | Asp | Asp | Pro | Ser | Lys | Pro | Val | His | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ser | Phe | Leu | Gly | Tyr | Lys | Ala | Gly | Met | Thr | His | Ile | Val | Xaa | Glu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Asp | Arg | Pro | Gly | Ser | Xaa | Val | Asn | Xaa | Lys | Glu | Val | Val | Glu | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Thr | Ile | Val | Glu | Thr | Pro | Pro | Met | Val | Val | Val | Gly | Ile | Val | Xaa |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Met | Lys | Thr | Pro | Arg | Xaa | Leu | Arg | Thr | Phe | Xaa | Thr | Val | Phe | Ala |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | His | Ile | Ser | Asp | Glu | Cys | Xaa | Arg | Arg | Phe | Tyr | Xaa | Asn | Trp | Xaa |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Asn | Asn | Xaa | Ala | Phe | Thr | Xaa | Tyr | Cys | Xaa | Lys | Xaa | Gln | Asp |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asp | Xaa | Xaa | Lys | Xaa | Leu | Gly | Glu | Xaa | Leu | Gln | Gln | His | Glu | Lys |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Cys | Pro | Val | Ile | Arg | Val | Ile | Ala | His | Xaa | Gln | Asp | Ser | Pro | Ala |
| | | | | 165 | | | | | 170 | | | | | 175 | |

5798

Ser Ser Ala Pro Xaa Lys Lys Ala Thr
 180 185

<210> 6550
 <211> 39
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6550
 Ala Ala Val Gly Phe Phe Leu Gly Ile Val Trp Ser Gly Ala Gly Thr
 1 5 10 15

Gln Leu Xaa Phe Gly Glu Arg Pro Ala Xaa Lys Met Ile Gly Xaa Asn
 20 25 30

Ser Pro Leu Leu Val Gly Leu
 35

<210> 6551
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (20)

5799

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6551

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ile | Pro | Lys | Ala | Asp | Ile | Thr | Trp | Glu | Leu | Pro | Asp | Lys | Xaa | His |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Ala | Xaa | Val | Gln | Ala | Arg | Xaa | Tyr | Gly | Asn | Xaa | Phe | Leu | Xaa |
| | | | 20 | | | | 25 | | | | | 30 | | | |

Pro

<210> 6552

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5800

<222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (63)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6552
 Cys Val Phe Gln Gln Ile Tyr His Asn Tyr Leu Met Cys Ile Ser Xaa
 1 5 10 15
 Xaa Tyr His Asn Tyr Val Met Cys Ile Ser Thr Ile Cys His Ser Xaa
 20 25 30
 Leu Ile Cys Xaa Ser Lys Xaa His Ala Val Leu Ala Leu His Xaa Asn
 35 40 45
 Xaa Glu Thr Ile Arg Asn His His Thr Xaa Glu Thr Leu Xaa Xaa Gln
 50 55 60

5801

Cys Xaa Ile Ile Ser Glu Arg Lys Leu Leu Phe Cys His Leu Tyr Ile
 65 70 75 80

Phe Met

<210> 6553

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6553

Asn Pro Thr Ser Leu Leu Gly Xaa Phe Gly Tyr Arg Pro Pro Pro Ala
 1 5 10 15

Val Phe Trp Arg Ala Ala Ala Ile Gly Pro Tyr Ala Thr Leu Met Pro
 20 25 30

Val Gly Leu Gln Gln Gly Pro Gln Ser Asp Gln Glu Leu Glu Gln Ala
 35 40 45

Pro Gly Thr Ala Arg Arg Arg Gly Arg Leu Thr Lys His Thr Lys Phe
 50 55 60

Val Arg Asp Met Ile Arg Glu Val Cys Gly Phe Ala Pro Tyr Glu Arg
 65 70 75 80

Arg Ala Met Glu Leu Leu Lys Val Ser Lys Asp Lys Arg Ala Leu Lys
 85 90 95

Phe Ile Lys Lys Arg Val Gly Thr His Ile Arg Ala Lys Arg Lys Arg
 100 105 110

Glu Glu Leu Ser Asn Val Leu Ala Ala Met Arg Lys Ala Ala Ala Lys
 115 120 125

Lys Asp
 130

<210> 6554

<211> 79

<212> PRT

5802

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

5803

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (68)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (75)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6554
 Ser Arg Arg Ser Xaa Leu Gly Ala Ala Xaa Xaa Gln Ser Val Glu Glu
 1 5 10 15
 Arg Ala Xaa Glu Xaa Pro Ser Cys Leu Gly Thr Leu Arg Xaa Val Ser
 20 25 30
 Ala Val Trp Xaa Thr Asn Arg Phe Xaa Xaa Leu Xaa Asn Asp Val Ser
 35 40 45
 Asp Pro Phe Glu Gly Ala Glu Gly Ser Gln Arg Thr Xaa Lys Lys Lys
 50 55 60
 Pro Gly Gly Xaa Arg Arg Leu Xaa Ala Leu Xaa Ser Ser Cys Ala
 65 70 75

<210> 6555
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 6555
 Ser Leu Asp Arg Val Ser Val Pro Met Trp Gly Thr Phe Leu Ser Glu
 1 5 10 15
 Pro Leu Ser Ile Glu Gly Leu Val Gly Arg Tyr Leu Thr Asn Asn Leu
 20 25 30

5804

Met Glu Arg Ile Pro Ile Leu Tyr Arg Asn Pro Leu Ile Ile Arg Pro
 35 40 45

Cys Gly Met Ile Ile Pro Ser Gly Ile Asn Leu Ser Phe Glu Arg Leu
 50 55 60

Ser Pro Ser Lys Gly
 65

<210> 6556

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6556

Ile Thr Met Asp Trp Gln Ser Ile Lys Ile Gln Glu Leu Met Ser Asp
 1 5 10 15

Asp Gln Arg Glu Ala Gly Arg Ile Pro Arg Thr Ile Glu Cys Glu Leu
 20 25 30

Val His Asp Leu Val Asp Ser Cys Val Pro Gly Asp Thr Val Thr Ile
 35 40 45

5805

Thr Gly Ile Val Lys Val Ser Asn Ala Glu Glu Gly Ser Arg Asn Lys
 50 55 60
 Asn Asp Lys Cys Met Phe Leu Leu Tyr Ile Glu Ala Asn Ser Ile Ser
 65 70 75 80
 Asn Ser Lys Gly Gln Lys Thr Lys Ser Ser Glu Asp Gly Cys Lys His
 85 90 95
 Gly Met Leu Met Glu Phe Ser Leu Lys Asp Leu Tyr Ala Ile Gln Glu
 100 105 110
 Ile Gln Ala Glu Glu Asn Leu Phe Lys Leu Ile Val Asn Ser Leu Cys
 115 120 125
 Pro Val Ile Phe Gly His Glu Ala Ala Cys Asn Val Ala Pro Arg Gly
 130 135 140
 Val Tyr Xaa Cys Gly Asn Thr Thr Thr Thr Phe Gly Leu Thr Val Thr
 145 150 155 160
 Leu Ser Lys Asp Xaa Xaa Xaa Gly Xaa Phe Ala Phe Gly Thr Trp Cys
 165 170 175
 Pro Trp

<210> 6557

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5806

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6557

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ser | Met | Thr | Val | Glu | Pro | Asn | Pro | Phe | Gln | Arg | Lys | Val | Leu | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Gly | Phe | Glu | Pro | Ala | Asp | Asn | Lys | Xaa | Leu | Leu | Arg | Ala | Thr | Asp |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Lys | Lys | Ile | Ser | Thr | Val | Val | Ser | Ser | Lys | Glu | Val | Asn | Lys |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gln | Xaa | Ala | Tyr | Ser | Asn | Leu | Leu | Arg | Ala | Asn | Met | Asp | Gly | Xaa |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Lys | Xaa | Arg | Asp | Xaa |
| | | | | 65 |

<210> 6558

<211> 24

<212> PRT

<213> Homo sapiens

<400> 6558

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Ile | Pro | Ser | Pro | Ala | Lys | Lys | Val | Pro | Arg | Leu | Pro | Ala | Thr | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Glu | Pro | Glu | Ser | Ser | Cys | His |
| | | | 20 | | | | |

<210> 6559

<211> 178

<212> PRT

<213> Homo sapiens

<220>

5807

<221> SITE
 <222> (145)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (151)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (173)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (176)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (177)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6559
 Trp Arg Leu Met Ser Arg Phe Asn Ala Phe Lys Arg Thr Asn Thr Ile
 1 5 10 15
 Leu His His Leu Arg Met Ser Lys His Thr Asp Ala Ala Glu Glu Val
 20 25 30
 Leu Leu Glu Lys Lys Gly Cys Ala Gly Val Ile Thr Leu Asn Arg Pro
 35 40 45
 Lys Phe Leu Asn Ala Leu Thr Leu Asn Met Ile Arg Gln Ile Tyr Pro
 50 55 60
 Gln Leu Lys Lys Trp Glu Gln Asp Pro Glu Thr Phe Leu Ile Ile Ile
 65 70 75 80
 Lys Gly Ala Gly Gly Lys Ala Phe Cys Ala Gly Gly Asp Ile Arg Val
 85 90 95
 Ile Ser Glu Ala Glu Lys Ala Lys Gln Lys Ile Ala Pro Val Phe Phe
 100 105 110
 Arg Glu Glu Tyr Met Leu Asn Asn Ala Val Gly Ser Cys Gln Lys Pro
 115 120 125
 Tyr Val Ala Leu Ile His Gly Ile Thr Met Gly Gly Gly Val Gly Leu
 130 135 140

5808

Xaa Val His Gly Gln Phe Xaa Val Ala Thr Glu Lys Val Ser Phe Cys
 145 150 155 160

Tyr Ala Arg Asn Cys Asn Arg Thr Gly Pro Leu Met Xaa Gly Gly Xaa
 165 170 175

Xaa Phe

<210> 6560

<211> 86

<212> PRT

<213> Homo sapiens

<400> 6560

Phe Gly Arg Ala Asp Ser Glu Arg Gln Asn Gln Glu Tyr Gln Arg Leu
 1 5 10 15

Met Asp Ile Lys Ser Arg Leu Glu Gln Glu Ile Ala Ile Tyr Arg Ser
 20 25 30

Leu Leu Glu Gly Gln Glu Asp His Ser Gln Gln Phe Val Cys Leu Gln
 35 40 45

Gly Pro Leu Arg Gln Gln Ala Leu Gly Leu Leu Leu Ser Phe Gly Gly
 50 55 60

Cys Leu Leu Gly Arg Gly Met Gly Arg Lys Gly Pro Leu Pro Pro Ala
 65 70 75 80

Leu Leu Leu Thr Cys Gln
 85

<210> 6561

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

5809

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6561

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | His | Tyr | Xaa | Gly | Xaa | Ala | Gly | Xaa | Pro | Ala | Gly | Thr | Gly | Pro | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Pro | Gly | Arg | Pro | Xaa | Arg | Pro | Xaa | Glu | Gln | Asn | Arg | Lys | Asp | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ala | Trp | Phe | Thr | Ser | Arg | Thr | Glu | Glu | Leu | Asn | Arg | Glu | Val | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | His | Thr | Glu | Gln | Leu | Gln | Met | Ser | Arg | Ser | Glu | Val | Thr | Asp | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Thr | Leu | Gln | Gly | Leu | Glu | Ile | Glu | Leu | Gln | Ser | Gln | Leu | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Ala | Ala | Leu | Glu | Asp | Thr | Leu | Ala | Glu | Thr | Glu | Ala | Arg | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Gln | Leu | Ala | His | Ile | Gln | Ala | Leu | Ile | Ser | Gly | Ile | Glu | Ala |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Gly | Asp | Val | Arg | Ala | Asp | Ser | Glu | Arg | Gln | Asn | Gln | Glu | Tyr |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Arg | Leu | Met | Asp | Ile | Lys | Ser | Arg | Leu | Glu | Gln | Glu | Ile | Ala | Thr |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Arg | Ser | Leu | Leu | Glu | Gly | Gln | Glu | Asp | His | Tyr | Asn | Asn | Leu | Ser |
| 145 | | | | | 150 | | | | | 155 | | | | 160 | |

| | | | | |
|-----|-----|-----|-----|-----|
| Ala | Ser | Lys | Val | Leu |
| | | | | 165 |

5810

<210> 6562

<211> 180

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6562

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Lys | Xaa | Glu | Thr | Trp | Arg | Glu | Val | Tyr | Leu | Gln | Asp | Ser | Phe | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Val | Cys | Ile | Ser | Pro | Asn | Ala | Ser | Leu | Phe | Asp | Ala | Val | Ser |
| | | 20 | | | | | | 25 | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Ile | Arg | Asn | Lys | Ile | His | Arg | Leu | Pro | Val | Ile | Asp | Pro | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Asn | Thr | Leu | Tyr | Ile | Leu | Thr | His | Lys | Arg | Ile | Leu | Lys | Phe |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Leu | Phe | Ile | Thr | Glu | Phe | Pro | Lys | Pro | Glu | Phe | Met | Ser | Lys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Glu | Lys | Leu | Pro | Xaa | Trp | Xaa | Leu | Cys | Gln | Tyr | Cys | Tyr | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Thr | Thr | Pro | Val | Tyr | Val | Ala | Leu | Gly | Ile | Phe | Val | Gln | His |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Val | Ser | Ala | Leu | Pro | Val | Val | Asp | Glu | Lys | Gly | Arg | Val | Val | Asp |
| | | 115 | | | | | 120 | | | | | 125 | | | |

5811

Ile Tyr Ser Lys Phe Asp Val Ile Asn Leu Ala Ala Glu Lys Thr Tyr
 130 135 140

Asn Asn Leu Asp Val Ser Val Thr Lys Ala Leu Gln His Arg Ser His
 145 150 155 160

Tyr Phe Glu Gly Val Leu Lys Cys Tyr Leu His Glu Thr Trp Arg Pro
 165 170 175

Ser Leu Thr Gly
 180

<210> 6563

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6563

Asn Ser Ala Xaa Val Ala Arg Thr Ile Gly Ile Ser Val Asp Pro Arg
 1 5 10 15

Arg Arg Asn Lys Ser Thr Glu Ser Xaa Gln Ala Asn Val Gln Xaa Leu
 20 25 30

5812

Lys Glu Tyr Arg Ser Lys Leu Ile Leu Phe Xaa Arg Xaa Pro Ser Ala
35 40 45

Pro Lys Lys Gly Asp Ser Ser Ala Glu Glu Leu Arg Thr Gly Pro Pro
50 55 60

Ser
65

<210> 6564
<211> 78
<212> PRT
<213> Homo sapiens

<220>
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5813

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<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (36)
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<220>
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<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (50)
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<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

5814

<400> 6564

His Arg Asn His Leu Gly Xaa Xaa His Gly Lys Ile Ser Ser Gly Gly
 1 5 10 15
 Xaa Ser His Thr Xaa Xaa Ile Pro Met Xaa Leu Val Val Phe Xaa Pro
 20 25 30
 Xaa Leu Cys Xaa Lys Met Gly Xaa Pro Tyr Cys Ile Ile Lys Gly Lys
 35 40 45
 Xaa Xaa Leu Ala Thr Tyr Xaa Ser Thr Gly Ser Xaa Cys Thr Ile Val
 50 55 60
 Arg Leu Xaa Thr Gly Val Leu Gly Thr Xaa Lys Gly Xaa Phe
 65 70 75

<210> 6565

<211> 58

<212> PRT

<213> Homo sapiens

<400> 6565

Arg Thr Ala Val Met Pro Arg Glu Asp Arg Ala Thr Trp Lys Ser Asn
 1 5 10 15
 Tyr Phe Leu Lys Ile Ile Gln Leu Leu Asp Asp Tyr Pro Lys Cys Phe
 20 25 30
 Ile Val Gly Ala Asp Asn Val Gly Ser Lys Gln Met Gln Gln Ile Pro
 35 40 45
 His Val Pro Ser Arg Glu Gly Leu Trp Cys
 50 55

<210> 6566

<211> 104

<212> PRT

<213> Homo sapiens

<220>

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<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

5815

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

5816

<400> 6566

Asn Thr Val Leu Ser Gly Gly Thr Thr Met Tyr Pro Gly Ile Ala Asp
1 5 10 15

Arg Met Gln Xaa Glu Ile Thr Ala Leu Ala Pro Ser Thr Met Lys Ile
20 25 30

Lys Ile Ile Ala Pro Pro Xaa Arg Lys Phe Ser Val Trp Asp Arg Xaa
35 40 45

Xaa Pro Ser Trp Xaa Arg Cys Pro Pro Ser Asn Arg Phe Xaa Ser Ala
50 55 60

Ser Xaa Asn Xaa Glu Xaa Ile Pro Gly Pro Ser His Pro Ser Thr Arg
65 70 75 80

Lys Leu Leu Pro Xaa Gly Gly Xaa Asn Xaa Leu Ile Leu Arg Leu Gln
85 90 95

Pro Phe Ser Phe Glu Lys Lys Pro
100

<210> 6567

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6567

5817

Cys Asp Pro Pro Ala Lys Gly Cys Gln Gly Leu Phe His Tyr Gly Leu
 1 5 10 15
 Cys Val Leu Pro Phe Arg His Leu Arg Asn Ser Ser His Ala Gly Ala
 20 25 30
 Phe Val Ile Val Thr Glu Glu Ala Ile Ala Lys Gly Ile Arg Arg Asn
 35 40 45
 Cys Gly Xaa Ser Gln Val Pro Arg Pro Xaa Xaa Gly Glu Pro Gly Xaa
 50 55 60
 Ser Leu Gly
 65

<210> 6568

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6568

Pro Xaa Gln Lys Gly Asp Thr Gly Glu Pro Gly Leu Pro Gly Thr Lys
 1 5 10 15

5818

Gly Thr Arg Gly Pro Pro Gly Ala Ser Gly Tyr Pro Gly Asn Pro Gly
 20 25 30

Leu Pro Gly Ile Pro Gly Gln Asp Gly Pro Pro Gly Pro Pro Gly Ile
 35 40 45

Pro Gly Cys Asn Gly Thr Lys Gly Glu Arg Gly Pro Leu Gly Pro Pro
 50 55 60

Gly Leu Pro Gly Phe Ala Gly Asn Pro Gly Pro Pro Gly Leu Pro Gly
 65 70 75 80

Met Lys Gly Asp Pro Xaa Glu Ile Leu Gly His Val Pro Gly Met Leu
 85 90 95

Leu Lys Gly Glu Arg Arg Phe Pro Glu Xaa Xaa Gly Leu Xaa Ala
 100 105 110

<210> 6569

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6569

Ala Ser Gly Asn Val Lys Lys Ala Leu Lys Leu Met Gly Ser Asn Glu
 1 5 10 15

Gly Glu Phe Lys Ala Glu Gly Asn Ser Lys Phe Thr Tyr Thr Val Leu
 20 25 30

5819

Glu Asp Gly Cys Thr Lys His Thr Gly Glu Trp Ser Lys Thr Val Phe
35 40 45

Glu Tyr Arg Thr Arg Lys Ala Val Arg Leu Pro Ile Val Asp Ile Ala
50 55 60

Pro Tyr Asp Ile Gly Gly Pro Asp Gln Glu Phe Gly Val Asp Val Xaa
65 70 75 80

Pro Asp Ser Leu Tyr Xaa Pro Asn Xaa Xaa
85 90

<210> 6570

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5820

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6570

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Ala | Tyr | Leu | Phe | Gln | Ala | Ala | Gly | Ala | Xaa | Tyr | Val | Val | Leu | Thr |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Lys | His | His | Glu | Gly | Phe | Thr | Asn | Trp | Xaa | Ser | Pro | Val | Ser | Trp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Trp | Asn | Ser | Lys | Asp | Val | Gly | Pro | His | Xaa | Asp | Leu | Val | Gly | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Thr | Ala | Leu | Arg | Lys | Arg | Asn | Xaa | Arg | Tyr | Gly | Leu | Tyr | His |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Leu | Glu | Trp | Xaa | His | Xaa | Leu | Tyr | Leu | Leu | Asp | Lys |
| 65 | | | | | 70 | | | | | 75 | | | |

<210> 6571

<211> 153

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

5821

<400> 6571

Asp Met Arg Pro Leu Ser Asn Lys Ala Ser Ala Leu Val Phe Phe Ser
1 5 10 15
Cys Arg Thr Asp Met Pro Tyr Arg Tyr His Ser Ser Leu Gly Gln Leu
20 25 30
Asn Phe Thr Gly Ser Val Ile Tyr Glu Ala Gln Asp Val Tyr Ser Gly
35 40 45
Asp Ile Ile Ser Gly Leu Arg Asp Glu Thr Asn Phe Thr Val Ile Ile
50 55 60
Asn Pro Ser Gly Val Val Met Trp Tyr Leu Tyr Pro Ile Lys Asn Trp
65 70 75 80
Arg Cys Pro Ser Ser Glu Glu Leu Gly His Val Thr Gly Cys Gly Gly
85 90 95
Thr Thr Glu Pro Arg Xaa Trp Xaa Leu Gly Met Pro Arg Ala Ser Xaa
100 105 110
Glu Val Leu Cys Ser Pro Gly Cys Ser Val Thr Asp Pro Ser Ser Gln
115 120 125
Xaa His Leu Thr Ala Ser Leu Ser Phe Gln Xaa Lys Pro Leu Glu Ile
130 135 140
Phe Gly His Phe Leu Trp Leu Leu Ala
145 150

<210> 6572

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5822

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6572

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asn | His | Ser | Xaa | Tyr | Arg | Ala | Ile | Gly | Val | Ser | Lys | Xaa | Cys | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ile | Asp | Val | Arg | Tyr | Leu | His | Phe | Leu | Glu | Gly | Thr | Arg | Asp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Asp | Trp | Leu | Glu | Pro | Leu | Leu | Xaa | Asn | Gln | Thr | Val | Met | Ser | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Phe | Trp | Phe | Arg | His | Arg | Pro | Gln | Glu | Ser | Phe | Ser | Gly | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ala | His | Arg | Gln | Val | Pro | Val | Xaa | Ala | Pro | Arg | Leu | Ser | Pro | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| His | Glu | Gln | Gln | Val | Thr |
| | | | | 85 | |

<210> 6573

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6573

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ile | Gln | Ser | His | Tyr | Gln | Leu | Glu | Leu | Gln | Cys | Cys | Ile | Asp | Trp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | His | Val | Thr | Asp | Pro | Leu | His | Arg | Xaa | Gln | Lys | Leu | Gln | Glu | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

5823

Lys His Lys Ser Ile Thr Glu Ala Leu Arg Arg Gln Glu Gln Asn Ile
 35 40 45
 Lys Ser Phe Glu Glu Thr Tyr Asp Arg Lys Leu Lys Asn Glu Leu Leu
 50 55 60
 Asn Phe His Arg Leu His Gly Val Cys Leu Ala Leu Gly Ile Leu Ile
 65 70 75 80

<210> 6574

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6574

Tyr Ala Leu Arg Arg His Lys Leu Met Ser Leu Ile Gln Lys Glu Ala
 1 5 10 15

Gln Gly Gln Ser Gly Thr Asp Gln Thr Val Gly Val Leu Ser Asn Pro
 20 25 30

Thr Tyr Tyr Met Ser Asn Asp Ile Pro Tyr Thr Phe His Gln Asp Asn
 35 40 45

Asn Phe Leu Tyr Leu Cys Gly Phe Gln Glu Pro Asp Ser Ile Leu Val
 50 55 60

5824

Leu Xaa Ser Leu Pro Gly Lys Gln Leu Pro Xaa His Lys Ala Ile Leu
 65 70 75 80

Phe Val Pro Arg Arg Asp Pro Ser Arg Glu Leu Trp Asp Gly Pro Xaa
 85 90 95

Ser Gly Thr Asp Gly Ala Ile Ser Ser Asn Trp Ser Arg Arg Ser Leu
 100 105 110

Tyr Ala Arg Arg Ile Ser Thr Xaa Cys Thr Lys Asn Glu Ser
 115 120 125

<210> 6575

<211> 145

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6575

Gly Lys Phe Cys Val Gln Ser Glu Arg Gln Asp Ser Ala Ala Val Gly
 1 5 10 15

Phe Asp Tyr Lys Glu Lys Leu Ala Lys His Glu Ser Gln Gln Asp Tyr
 20 25 30

Ser Lys Gly Phe Gly Gly Lys Tyr Gly Val Gln Lys Asp Arg Met Asp
 35 40 45

Lys Asn Ala Ser Thr Phe Glu Asp Val Thr Gln Val Ser Ser Ala Tyr

5825

50 55 60
 Gln Lys Thr Val Pro Val Glu Ala Val Thr Ser Lys Thr Ser Asn Ile
 65 70 75 80
 Arg Ala Asn Phe Glu Asn Leu Ala Lys Glu Lys Glu Gln Glu Asp Arg
 85 90 95
 Arg Lys Ala Xaa Ala Glu Arg Ala Gln Arg Met Ala Lys Glu Arg Gln
 100 105 110
 Glu Gln Glu Glu Ala Arg Lys Lys Leu Gly Xaa Thr Ser Gln Ser Gln
 115 120 125
 Asn Ala Asn Ala Pro Cys Val Xaa Arg Thr Leu Ser Gln Pro Xaa Glu
 130 135 140
 Lys
 145

<210> 6576
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 6576
 Gly Gln Cys Cys Gln Glu Leu Arg Thr Ser Leu Arg Asn Val Thr Leu
 1 5 10 15
 His Cys Thr Asp Gly Ser Ser Arg Ala Phe Ser Tyr Thr Glu Val Glu
 20 25 30
 Glu Cys Gly Cys Met Gly Arg Arg Cys Pro Ala Pro Gly Asp Thr Gln
 35 40 45
 His Ser Glu Glu Ala Glu Pro Glu Pro Ser Gln Glu Ala Glu Ser Gly
 50 55 60
 Ser Trp Glu Arg Gly Val Pro Val Ser Pro Met His
 65 70 75

<210> 6577
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 6577

5826

Leu Asp Asp Trp Gly Glu Thr Cys Lys Gly Cys Ala Glu Lys Ser Asp
1 5 10 15 .

Tyr Ile Arg Lys Ile Asn Glu Leu Met Pro Lys Tyr Ala Pro Lys Ala
20 25 30

Ala Ser Ala Arg Thr Asp Leu
35

<210> 6578

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6578

Glu Phe Gly Arg Gly Ile Asn Leu Glu Thr Pro Ser Met Val Ala Gly
1 5 10 15

Met Glu Phe Ile Lys Val Gly Arg Ala Trp Glu Asp Gly Lys Val Gly
20 25 30

Ser Ala Cys Pro Gly Ile Phe Arg Trp Pro Gly Val Leu Pro Xaa Gly
35 40 45

Arg Val Ile Gly Glu Pro Thr Glu Ser Asp Gly Arg Val Pro His Arg
50 55 60

Gly Pro Ala Gly Gly Arg Arg Gly Cys Pro Arg Thr Glu
65 70 75

<210> 6579

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5827

<222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

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 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (22)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids

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 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (88)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6579
 Lys Met Pro Lys Ser Leu Lys Xaa Xaa Gln Thr Glu Xaa Leu Xaa Asn
 1 5 10 15

5828

Ala Leu Leu Gln Gly Xaa Pro Val Xaa Xaa Gly Arg Cys Xaa Arg Gln
20 25 30

Pro Leu Thr Arg Cys Ile Ala Thr Ala Ser Gly Ser Lys Leu Lys Gly
35 40 45

Gln Pro Val Arg Ile Xaa Pro Gly Lys Ser Asp Xaa Arg His Gln Pro
50 55 60

Gly Gly Ser Met Arg Thr Gly Pro Thr Glu Ser Leu Ile Gln Gly Leu
65 70 75 80

His Gln Ser Val Phe Arg Ala Xaa Lys Arg Ile Gly Leu Val Leu Phe
85 90 95

Gly Lys Gly Asn Thr Gly Phe Pro Leu Ala Gly Thr Val Arg Pro
100 105 110

<210> 6580

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

5829

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6580
Leu Thr Tyr Val Arg Pro Lys Gly Leu Ile Ser Met Xaa Glu Ser Arg
1 5 10 15

Ser Cys Asp Gly His Leu Gly Asn Phe Leu Gly Ala Arg Ser Pro Asp
20 25 30

5830

Glu Thr Ile Phe Cys Asn Asp Xaa Pro Leu His Leu Leu His Xaa Trp
 35 40 45

Ser Pro Asp Ile Ile Pro Xaa Leu Val Ser Cys Arg Phe Thr Lys Glu
 50 55 60

Thr Thr Xaa Lys Asn Phe Asn Xaa Xaa Tyr Gly Thr Lys Gly Asn Tyr
 65 70 75 80

Thr Ser Xaa Xaa Trp Glu Tyr Ser Xaa Ser Ile Gln Asn Ser Asp Asn
 85 90 95

Asp Leu Pro Val Phe Gln Gly Ile Ser Ser Phe Ser Leu Lys Gly Tyr
 100 105 110

Xaa Xaa Leu Met Arg Ser Xaa Ser Xaa Lys Ala Gln Pro Gln Thr Trp
 115 120 125

Lys Ser Gly
 130

<210> 6581

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6581

Leu Ala Phe Xaa Xaa Ile Lys Leu Gly Arg Tyr Ser Gly Leu Xaa His

5831

| | | | |
|---|----|----|----|
| 1 | 5 | 10 | 15 |
| Gly Val Ala Tyr Gly Ala Thr Arg Tyr Asn Tyr Leu Lys Pro Arg Ala | | | |
| 20 | 25 | 30 | |
| Glu Glu Glu Arg Arg Ile Ala Ala Glu Glu Lys Lys Lys Gln Asp Glu | | | |
| 35 | 40 | 45 | |
| Leu Lys Arg Ile Ala Arg Glu Leu Ala Glu Asp Asp Ser Ile Leu Lys | | | |
| 50 | 55 | 60 | |
| Xaa Val Thr Leu Arg Pro Thr Pro Trp Thr Ser Ser Gly | | | |
| 65 | 70 | 75 | |

<210> 6582

<211> 58

<212> PRT

<213> Homo sapiens

<400> 6582

| | | | |
|---|----|----|----|
| Pro Arg Lys Leu Lys Gln Thr Leu Arg Thr Lys Met Asn Glu Asn Leu | | | |
| 1 | 5 | 10 | 15 |
| Phe Ala Ser Phe Ile Ala Pro Thr Ile Leu Gly Leu Pro Ala Ala Val | | | |
| 20 | 25 | 30 | |
| Leu Ile Ile Leu Phe Pro Pro Leu Leu Ile Pro Thr Ser Lys Tyr Leu | | | |
| 35 | 40 | 45 | |
| Ile Asn Asn Arg Leu Ile Thr Thr Gln Gln | | | |
| 50 | 55 | | |

<210> 6583

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

5832

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (109)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (118)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6583
 Ala Gly Ala Val Ile Ile Gly Phe Arg Ser Lys Ile Lys Asn Ala Leu
 1 5 10 15
 Ala His Phe Leu Pro Gln Gly Thr Pro Thr Pro Leu Ile Pro Ile Leu
 20 25 30
 Val Ile Ile Glu Thr Ile Ser Leu Leu Ile Gln Pro Ile Ala Leu Ala
 35 40 45
 Val Arg Leu Thr Ala Tyr Ile Thr Ala Xaa His Leu Leu Met His Leu
 50 55 60
 Ile Gly Xaa Ala Thr Leu Xaa Ile Ser Thr Ile Asn Leu Pro Ser Thr
 65 70 75 80
 Leu Ile Ile Phe Thr Ile Leu Ile Leu Leu Thr Ile Leu Glu Ile Ala
 85 90 95
 Val Ala Leu Ile Gln Ser Leu Arg Phe Pro His Phe Xaa Leu Ser Leu
 100 105 110
 Leu Pro Ala Gln Gln Xaa
 115

<210> 6584
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 6584
 Ile Gly Val Thr Ala Val Ala Phe Asn Lys Glu Leu Asp Pro Ile Gln
 1 5 10 15

5833

Lys Leu Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln Thr
20 25 30

Ser Gly Gly Pro Val Asp Ala Ser Ser Glu Tyr Gln Gln Glu Leu Glu
35 40 45

Arg Glu Leu Phe Lys Leu Lys Gln Met Phe Gly Asn Ala Asp Met Asn
50 55 60

Thr Phe Pro Thr Phe Lys Phe Glu Asp Pro Lys Phe Glu Val Ile Glu
65 70 75 80

Lys Pro Gln Ala

<210> 6585

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

5834

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (57)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6585
 Xaa Gly Ala Val Ile Ile Xaa Phe Arg Ser Lys Ile Lys Xaa Ala Leu
 1 5 10 15
 Ala His Phe Leu Ser Lys Xaa Thr Pro Thr Pro Leu Ile Pro Ile Leu
 20 25 30
 Val Ile Met Xaa Asn Xaa Ile Leu Leu Xaa Xaa Pro Ile Ala Leu Gly
 35 40 45
 Val Ser Leu Ile Ala Tyr Ile Thr Xaa Gly His Xaa Leu Met His Leu
 50 55 60
 Ile Gly Xaa Val Pro Tyr Asn Ile Asn His
 65 70

<210> 6586
 <211> 92
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

5835

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6586

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Glu | Ala | Phe | Gln | Ser | Val | Val | Leu | Pro | Ala | Phe | Glu | Lys | Ser | Cys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ala | Met | Phe | Gln | Gln | Ile | Asn | Asp | Ser | Phe | Arg | Leu | Gly | Thr | Gln |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Tyr | Leu | Gln | Gln | Leu | Glu | Ser | His | Met | Lys | Ser | Arg | Lys | Ala | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gln | Glu | Ala | Arg | Glu | Pro | Val | Leu | Ala | Gln | Gln | Ala | His | Ile | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Leu | Gln | Gln | Gly | His | Leu | Asn | Gln | Ala | Xaa | Gln | Gln | Ala | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Ala | Asp | Leu | Asn | Leu | Val | Leu | Val | Cys | Val |
| | | | | 85 | | | | | 90 | | |

<210> 6587

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6587

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Leu | Ala | Leu | Leu | Ser | Leu | Ser | Gly | Leu | Glu | Ala | Ile | Gln | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Pro | Lys | Ile | Gln | Val | Tyr | Ser | Arg | His | Pro | Ala | Glu | Asn | Gly | Lys |
| | | | 20 | | | | | 25 | | | | | | 30 | |

5836

Ser Asn Phe Leu Asn Cys Tyr Val Ser Gly Phe His Pro Ser Asp Ile
 35 40 45

Glu Val Asp Leu Leu Lys Asn Gly Glu Arg Ile Glu Lys Ser Gly Ala
 50 55 60

Phe Arg Leu Xaa Phe Gln Gln Gly Leu Val Phe Leu Ser Xaa Xaa Leu
 65 70 75 80

His

<210> 6588

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6588

Pro Gln Lys Pro Leu Ser Ser Thr Pro Thr Gly Cys Xaa Trp Gly Lys
 1 5 10 15

Thr Gln Gly Leu Gln Cys Leu Gly Pro Gly Trp Arg His Leu His Ala
 20 25 30

5837

Val Pro Thr Ala Pro Pro Ala Leu Arg His Gly Leu Leu Arg Xaa Met
 35 40 45
 Cys Leu Pro Trp Thr Arg Arg Leu Gly Tyr Ser Ala Met Pro Gln Ala
 50 55 60
 Leu Thr Leu Val Pro Ser Trp Leu Pro Gly Pro Pro Gly Arg Thr Ser
 65 70 75 80
 Ala Ala Arg Gly Cys Gly Arg Pro Ser Arg Ser Trp Arg Ala Ala Ala
 85 90 95
 Glu Ala Gly Gly Pro Gly Gly Xaa Gly Pro Ala Xaa Val Gly Ser Gly
 100 105 110
 Ala Gly Gly Arg Arg Pro Ala Val Thr Gly Ala Ala Pro Ala Ser Leu
 115 120 125
 Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg Pro
 130 135 140
 Pro Pro Arg Trp Ser Xaa Ser Phe Val Pro
 145 150

<210> 6589

<211> 128

<212> PRT

<213> Homo sapiens

<400> 6589

Val Cys Met Ser Tyr Ala Phe His Thr Pro Asp Lys Leu Ser Phe Ile
 1 5 10 15
 Leu Asp Leu Met Asn Gly Gly Asp Leu His Tyr His Leu Ser Gln His
 20 25 30
 Gly Val Phe Ser Glu Ala Asp Met Arg Phe Tyr Ala Ala Glu Ile Ile
 35 40 45
 Leu Gly Leu Glu His Met His Asn Arg Phe Val Val Tyr Arg Asp Leu
 50 55 60
 Lys Pro Ala Asn Ile Leu Leu Asp Glu His Gly His Val Arg Ile Ser
 65 70 75 80
 Asp Leu Gly Leu Ala Cys Asp Phe Ser Arg Arg Ser Pro Met Pro Ala
 85 90 95
 Trp Ala Pro Thr Gly Thr Trp Leu Arg Arg Ser Cys Arg Arg Ala Trp

5838

| | | |
|---|-----|-----|
| 100 | 105 | 110 |
| Pro Thr Thr Ala Val Pro Thr Gly Ser Leu Trp Gly Ala Cys Ser Ser | | |
| 115 | 120 | 125 |

<210> 6590

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6590

| |
|---|
| Xaa Pro Thr Pro Val Thr Phe Gly Phe Xaa Pro Ser Phe Phe Ala Thr |
| 1 5 10 15 |

| |
|---|
| Phe Ala Gly Phe Pro Arg Gln Ala Xaa Asn Xaa Gly Leu Pro Leu Gly |
| 20 25 30 |

5839

Phe Pro Ile Xaa Xaa Phe Thr
35

<210> 6591

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6591

Xaa Thr Ile Gly Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe
1 5 10 15

Pro Gly Val Val Thr Arg Xaa Val Thr Ala Thr Leu Ala Ser Ala Leu
20 25 30

Xaa Pro Ala Pro Phe Ala Phe Phe Pro Ser Phe Leu Ala Thr Phe Ala
35 40 45

Gly Phe Pro Arg Gln Ala Leu Asn Arg Gly Leu Pro Leu Gly Phe Arg
50 55 60

Phe Ser Ala Leu Arg His Leu Asp Pro Lys Lys Leu Asp
65 70 75

<210> 6592

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5840

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6592

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Ser | Gly | Arg | Ser | Arg | Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | His | Ser | Ser | Ser | Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Xaa | Pro | Lys | Xaa | Ala | Gln | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

Asp

<210> 6593

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6593

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Ser | Gly | Arg | Ser | Arg | Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

5841

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
 20 25 30

Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu
 35 40 45

Asn Arg Leu Ala Ala His Pro Pro Phe Ala Xaa Trp Arg Asn Ser Xaa
 50 55 60

Glu Ala Arg Thr Asp Arg Leu Pro Asn Ser Cys Ala Xaa
 65 70 75

<210> 6594

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6594

Xaa Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly
 1 5 10 15

Ile Pro Gly Ser Thr His Ala Ser Ala His Ala Ser Gly Gly
 20 25 30

<210> 6595

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5842

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6595

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Ser | Gly | Arg | Ser | Arg | Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | His | Ser | Ser | Ser | Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Pro | Gly | Val | Thr | Gln | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Arg | Leu | Ala | Ala | His | Pro | Pro | Phe | Ala | Ser | Trp | Arg | Asn | Xaa | Glu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ala | Arg | Asn | Xaa | Xaa | Pro | Xaa | Pro | Asn | Arg | Leu | Arg | Ser | Leu | Glu |
| 65 | | | | 70 | | | | | | 75 | | | | | 80 |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Trp | Arg | Met | Gly | Arg | Ala | Leu |
| | | | | | | 85 |

<210> 6596

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5843

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6596

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Lys | Lys | Arg | Ala | Ala | Ala | Leu | Glu | Asp | Pro | Ser | Leu | Arg | Thr |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ala | Cys | Arg | Arg | His | Xaa | Ser | Ser | Ile | Val | Ser | Pro | Lys | Phe | Asn |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Gly | Arg | Arg | Leu | His | Val | Val | Thr | Gly | Xaa | Asn | Pro | Ala | Val |
| | | 35 | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gln | Leu | Asn | Pro | Pro | Cys | Arg | Thr | Ser | Pro | Phe | Arg | Lys | Xaa | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ile | Pro | Lys | Gly | Pro | Thr | Xaa |
| 65 | | | | | 70 | |

<210> 6597

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6597

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Thr | Thr | Xaa | Tyr | Arg | Glu | Ser | Trp | Tyr | Ala | Cys | Arg | Tyr | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Gly | Leu | Trp | Ser | Gln | Cys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

5844

<210> 6598
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<220>
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<220>
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<222> (62)
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<220>
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<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6598
Ala Ser Ser Arg Ser Arg Ala Xaa Xaa Leu Glu Asp Pro Ser Leu Arg
1 5 10 15

5845

Thr Arg Ala Cys Arg Arg His Ser Xaa Ser Ile Val Ser Pro Lys Phe
20 25 30

Asn Ser Leu Ala Val Val Leu Gln Arg Xaa Asp Trp Glu Asn Pro Gly
35 40 45

Xaa Thr Gln Leu Lys Arg Leu Ala Val His Ser Leu Phe Xaa Gln Xaa
50 55 60

Xaa
65

<210> 6599
<211> 106
<212> PRT
<213> Homo sapiens

<220>
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<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5846

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6599

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ser | Asp | Xaa | Thr | Lys | Lys | Lys | Lys | Lys | Gly | Gly | Arg | Ser | Xaa | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met | Arg | Arg | His | Ser | Ser | Xaa | Ile | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp | Trp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asn | Pro | Gly | Val | Thr | Gln | Leu | Asn | Arg | Leu | Ala | Ala | His | Thr | Pro |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ala | Ser | Trp | Arg | Asn | Ser | Glu | Glu | Ala | Arg | Thr | Asp | Arg | Pro | Xaa |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Gln | Leu | Xaa | Ser | Leu | Asn | Gly | Glu | Trp | Asp | Ala | Pro | Cys | Ser | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Ser | Ala | Xaa | Gly | Val | Val | Val | Thr |
| | | 100 | | | | | | 105 | |

<210> 6600

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

5847

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6600

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Pro | Phe | Gly | Asn | Pro | Xaa | Gly | Thr | Thr | Xaa | Tyr | Arg | Glu | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ala | Asp | Ala | Trp | Ala | Asp | Ala | Trp | Ala | Asp | Ala | Trp | Val | Lys | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Tyr | Lys | Lys | Leu | Phe | Val | Leu | Asp | Asp | Arg | Glu | Ala | His | Asn | Glu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Val | Xaa | Pro | Leu | Xaa | Xaa |
| 65 | | | | 70 | |

<210> 6601

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5848

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6601

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asn | Leu | Cys | Asn | Leu | Lys | Asn | Xaa | Xaa | Glu | Gly | Gly | Arg | Ser | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met | Arg | Arg | His | Ser | Ser | Ser | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Glu | Asn | Pro | Gly | Val | Thr | Xaa | Leu | Asn | Arg | Leu | Ala | Ala | His | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Pro | Phe | Xaa | Gln | Xaa |
| 65 | | | | |

<210> 6602

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

5849

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6602
Leu Xaa Xaa Leu Trp Lys Thr Pro His Tyr Arg Leu Ser Trp Tyr Ala
1 5 10 15
Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Xaa Xaa Ser
20 25 30

<210> 6603
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

5850

<400> 6603

Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His
 1 5 10 15

Ala Ser Gly Glu Ser Ser His Tyr Xaa Phe Ser Xaa Gly Xaa Gly Ala
 20 25 30

Gly Xaa Phe Lys Ser Phe
 35

<210> 6604

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6604

Asn Ser Ser Gly Asn Pro His Tyr Arg Xaa Ser Trp Tyr Ala Cys Arg
 1 5 10 15

Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala His Ala Ser
 20 25 30

Ala His Ala Xaa Glu Lys Xaa Arg Xaa Lys Lys Xaa

5851

35

40

<210> 6605
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6605
Xaa Ser Pro Ala Ser Tyr Pro Xaa His Tyr Arg Glu Ser Trp Tyr Ala
1 5 10 15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Asp
20 25 30

5852

Ala Trp Val Asp Pro Xaa Ile Xaa Xaa Xaa Xaa
 35 40

<210> 6606

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6606

Tyr Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro
 1 5 10 15

Gly Ser Thr His Ala Ser Gly Gln Xaa Xaa Xaa Phe Leu Trp Pro Thr
 20 25 30

Ser Glu Pro Val Thr Arg Lys Gly Lys Xaa Gly Arg Xaa Glu Asp Pro
 35 40 45

Thr Tyr Glu Xaa Asn Val Tyr Gly Leu

5853

50

55

<210> 6607

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6607

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Pro | His | Tyr | Arg | Glu | Ser | Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Pro | Gly | Ser | Thr | His | Ala | Xaa | Ala | Glu | Arg | Glu | Thr | Ile | Ser | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gln | Gly | Thr | Ile | Pro | Gly | Asn | Val | Leu | Ile | His | Tyr | Gly | Ile | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | |
|-----|-----|-----|
| Ala | Val | Val |
| | 50 | |

<210> 6608

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6608

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Xaa | Lys | Leu | Leu | Xaa | Asn | Thr | Pro | His | Tyr | Arg | Glu | Ser | Trp | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

5854

His Phe

<210> 6609

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6609

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Ser | Gly | Arg | Ser | Arg | Arg | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | His | Ser | Ser | Ser | Ile | Leu | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Xaa | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Xaa | Thr | Xaa | Xaa | Pro | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

<210> 6610

<211> 41

<212> PRT

<213> Homo sapiens

<400> 6610

5855

Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
1 5 10 15
Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
20 25 30
Val Val Leu Gln Arg Arg Asp Trp Glu
35 40

<210> 6611

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6611

Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
1 5 10 15

Arg Arg His Xaa Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
20 25 30

Val Val Leu Gln Arg Arg Asp Trp Glu Thr Lys Xaa Xaa
35 40 45

<210> 6612

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

5856

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6612

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Ser | Gly | Arg | Ser | Arg | Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | His | Ser | Ser | Ser | Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Pro | Xaa | Arg | Xaa | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | |

<210> 6613

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5857

<222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6613
 Phe Xaa Ile Xaa Ser Gly Arg Xaa Arg Gly Ser Xaa Leu Xaa Tyr Ala
 1 5 10 15

 Cys Met Arg Xaa His Ser Ser Xaa Ile Met Ser Pro Lys Phe Asn Ser
 20 25 30

 Leu Ala Xaa Xaa Leu Gln Arg Arg Asp Trp Glu Asn Glu Cys
 35 40 45

 <210> 6614
 <211> 45
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6614

5858

Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 1 5 10 15

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
 20 25 30

Val Val Leu Gln Arg Arg Asp Trp Thr Pro Lys Xaa Xaa
 35 40 45

<210> 6615

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6615

Asp Tyr Xaa Xaa Ser Asn Thr Ser His Tyr Xaa Glu Ser Trp Tyr Ala
 1 5 10 15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala
 20 25 30

<210> 6616

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6616

5859

Gly Gly Gly Val Gly Asn Asp Tyr Ala Leu Ser Asn Thr Xaa His Tyr
1 5 10 15
Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser
20 25 30
Thr His Ala Ser
35

<210> 6617

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6617

Leu Arg Xaa Ser Gln Ile Arg Xaa Xaa Ile Gly Xaa Ser Trp Tyr Ala
1 5 10 15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Val

5860

20 25 30
 Leu Val Val Ile Phe Phe Phe Xaa Pro Gly Cys Xaa Leu Phe
 35 40 45

<210> 6618

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6618

Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 1 5 10 15

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
 20 25 30

Val Val Leu Gln Arg Arg Asp Trp Asp Pro Lys Xaa Xaa
 35 40 45

<210> 6619

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5861

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6619

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Ser | Gly | Arg | Ser | Xaa | Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | His | Ser | Ser | Ser | Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Thr | Gln | Xaa | Xaa |
| | | 35 | | | | | 40 | | | | | 45 |

<210> 6620

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6620

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Val | Gly | Thr | Lys | Thr | Ser | Arg | Gly | Xaa | Lys | Arg | Ala | Ala | Ala | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Asp | Pro | Ser | Leu | Arg | Thr | Arg | Ala | Cys | Gly | Arg | His | Ser | Ser | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

Asp Trp Asp Pro Xaa Asn Xaa Xaa Gly

5862

50

55

<210> 6621

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6621

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asp | Ile | Ser | Leu | Leu | Lys | Lys | Lys | Lys | Lys | Gly | Gly | Arg | Ser | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met | Arg | Arg | His | Ser | Ser | Xaa | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ser | Pro | Lys | Phe | Asn | Xaa | Leu | Ala | Arg |
| | | 35 | | | | | 40 | | |

<210> 6622

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

5863

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6622
 Ile Xaa Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 1 5 10 15
 Arg Arg His Ser Ser Ser Ile Xaa Thr Pro Lys Phe Asn Ser Leu Ala
 20 25 30
 Val Xaa Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu
 35 40 45
 Asn Arg Leu Ala Ala His Pro Xaa Phe Ala Ser Trp Arg Asn Ser Glu
 50 55 60
 Glu Ala Arg Thr Asp Arg Leu Ala Asn Arg Cys Ala Xaa
 65 70 75

<210> 6623
 <211> 41
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (41)

5864

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6623

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ile | Gln | Ala | Tyr | Arg | Thr | Arg | Ala | Cys | Arg | Arg | His | Ser | Ser | Ser |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |
| Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Asp | Trp | Glu | Asn | Pro | Asp | Xaa | Xaa | Xaa | | | | | | | |
| | | | 35 | | | | 40 | | | | | | | | |

<210> 6624

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6624

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Arg | Gln | Ala | Leu | Ile | Arg | Leu | Thr | Ile | Xaa | Ile | Xaa | Trp | Tyr | Ala |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |
| Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Ala | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Ala | Ser | Val | | | | | | | | | | | | | |
| | | | 35 | | | | | | | | | | | | |

<210> 6625

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

5865

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6625

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Arg | Gln | Ala | Leu | Ile | Arg | Leu | Thr | Ile | Gly | Xaa | Xaa | Trp | Tyr | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Ala | Lys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Asp | Arg | Ile | Val | Asn | Glu | Thr |
| | | 35 | | | | | 40 |

<210> 6626

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6626

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Arg | Gln | Ala | Leu | Ile | Arg | Leu | Thr | Ile | Xaa | Ile | Xaa | Trp | Tyr | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Glu | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | |
|-----|-----|-----|-----|
| Leu | Leu | Leu | Glu |
| | | | 35 |

<210> 6627

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5866

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6627

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Xaa | Leu | Arg | Gln | Ala | Leu | Ile | Arg | Leu | Thr | Ile | Gly | Xaa | Ser | Trp |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser |
| | | | 20 | | | | 25 | | | | | 30 | | | |

Asp

<210> 6628

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5867

<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6628
Xaa Lys Gly Asn Xaa Xaa Thr Ala Met Thr Met Ile Thr Pro Ser Ser
1 5 10 15
Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Xaa
20 25 30
Gly Xaa Pro Gly Ser Thr His Ala Xaa Ala His Ala Ser Xaa Pro Met
35 40 45
Thr Thr Lys Gly Arg Lys Lys Tyr Phe Leu His
50 55

<210> 6629
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5868

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6629

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Gly | Asn | Leu | His | Arg | Ile | Thr | Ala | Met | Thr | Met | Ile | Thr | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Asn | Thr | Thr | His | Tyr | Xaa | Glu | Ser | Trp | Xaa | Ala | Cys | Arg | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Asp | His | Phe | Ala | His |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ser | Phe | Leu | Xaa | Glu | His | Ser | Lys | Lys | Met | Cys | Xaa |
| | 50 | | | | | 55 | | | | | 60 | |

<210> 6630

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

5869

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6630

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gly | Xaa | Leu | Pro | Pro | Pro | Phe | Pro | Gly | Lys | Thr | Xaa | Leu | Thr | Met |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Xaa | Pro | Ser | Ser | Asn | Thr | Thr | His | Tyr | Leu | Glu | Ser | Trp | Xaa | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Arg | Xaa | Arg | Xaa | Gly | Ile | Pro | Xaa | Ser | Xaa | His | Ala | Ser | Gly | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Glu | Glu | Ala | Xaa | Ala | Thr | Met | Glu | Asn | Lys | Xaa | Ile | Cys | Ala | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

Xaa Leu Xaa Xaa Met Leu Ala Leu Gly Thr Leu Ala

5870

65

70

75

<210> 6631

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6631

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Gly | Gly | Xaa | Leu | Thr | Gly | Asn | Xaa | Asn | Asn | Phe | Thr | Gln | Glu | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Met | Thr | Met | Ile | Thr | Pro | Ser | Ser | Asn | Thr | Thr | His | Tyr | Arg | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Xaa | Gly | Ile | Pro | Gly | Ser | Thr | His |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Ala | Trp | Xaa | Ser | Xaa | Ile |
| | | | | | | | |
| 50 | | | | | | 55 | |

5871

<210> 6632

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6632

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Asp | Ser | Leu | Phe | Gly | Lys | Val | Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Gly | Ile | Phe | Val | Lys | Asn | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | His | Tyr | Leu | Gln | Asn | Lys | Glu | Thr | Arg | Xaa | Xaa |
| | | 35 | | | | 40 | | | | | |

<210> 6633

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6633

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Met | Leu | Arg | Gln | Ala | Leu | Ile | Arg | Leu | Thr | Ile | Gly | Lys | Cys | Trp |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Val | Cys | Arg | Tyr | Arg | Xaa | Gly | Ile | Pro | Gly | Xaa | Thr | His | Ala | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

5872

Gly

<210> 6634

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6634

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Ile | Gly | Asn | Ser | Leu | Thr | Met | Ile | Thr | Pro | Ser | Ser | Asn | Thr |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | His | Tyr | Arg | Glu | Xaa | Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Ser | Thr | His | Ala | Ser | Gly |
| | | 35 | | | | 40 | |

<210> 6635

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6635

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Glu | Tyr | Ser | Phe | Leu | Leu | Glu | Thr | Ala | Ile | Thr | Met | Ile | Thr | Pro |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

5873

Ser Ser Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr
 20 25 30

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Glu Xaa Xaa Xaa Arg
 35 40 45

Thr Leu Lys Asn
 50

<210> 6636

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6636

Thr Val Ser Leu Gly Asn Ser Leu Thr Met Ile Thr Pro Ser Ser Asn
 1 5 10 15

Thr Thr His Tyr Arg Glu Xaa Trp Tyr Ala Cys Arg Tyr Arg Ser Gly
 20 25 30

Ile Pro Gly Ser Thr His Ala Ser Glu Ser Phe Lys Ser Trp Val Phe
 35 40 45

Arg Leu Leu Cys Ser Ser Cys Val Phe Asn Ile Leu
 50 55 60

<210> 6637

<211> 61

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

5874

<220>
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 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (59)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6637
 Glu Xaa Pro Xaa Phe Ile Leu Glu Thr Ala Ile Thr Met Ile Thr Pro
 1 5 10 15
 Ser Ser Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr
 20 25 30
 Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Pro Xaa Lys Ile
 35 40 45
 Arg Lys His Xaa Ser Tyr Ser His Val Glu Xaa Xaa Ala
 50 55 60

<210> 6638
 <211> 44
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

5875

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6638

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Xaa | Xaa | Pro | His | Phe | Xaa | Thr | Thr | His | Tyr | Arg | Glu | Xaa | Trp | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Glu |
| | | 20 | | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Thr | Phe | Cys | Gly | His | Cys | Lys | Ile | Asn | Ile | Trp |
| | 35 | | | | | | 40 | | | | |

<210> 6639

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6639

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Ser | Gly | Arg | Ser | Arg | Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | His | Ser | Ser | Ser | Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala |
| | | 20 | | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Pro | Gly | Val | Thr | Gln | Leu |
| | 35 | | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Arg | Leu | Ala | Ala | His | Xaa | Pro | Phe | Ala | Ala | Gly | Val | Ile | Ala | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Pro | Ala | Pro | Ile | Gly | Leu | Pro | Thr | Ser | Cys | Ala | Ala |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5876

65

70

75

<210> 6640

<211> 64

<212> PRT

<213> Homo sapiens

<220>

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<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5877

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6640

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Xaa | Xaa | Xaa | Xaa | Xaa | Lys | Lys | Lys | Gly | Gly | Arg | Ser | Xaa | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met | Arg | Arg | His | Xaa | Ser | Ser | Ile | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Pro | Lys | Phe | Asn | Tyr | Trp | Pro | Arg | Phe | Thr | Thr | Ser | Asp | Trp | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Pro | Gly | Val | Thr | Gln | Leu | Asn | Arg | Leu | Gly | Xaa | Asn | Xaa | Leu | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

<210> 6641

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

5878

<220>
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 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6641
 Tyr Ser Tyr Xaa Leu Pro Tyr Xaa Ile Phe Ile Leu Asn Lys Ile Ile
 1 5 10 15
 Trp Arg Phe Leu Pro Gln Xaa Xaa Xaa Xaa Lys Xaa Xaa Xaa Pro Ser
 20 25 30

5879

Xaa Lys Gly Gly Arg Xaa Xaa Arg Ser Lys Leu Thr Tyr Ala Cys Met
35 40 45

Gln Arg His Asn Ser Ser Ile Val Ser Leu Asn Ser Ile Xaa Trp Ala
50 55 60

Val Val Leu Gln Arg Xaa Asp Trp
65 70

<210> 6642

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6642

Arg Thr Xaa Phe Trp Asn Thr Xaa Xaa Tyr Arg Glu Ser Trp Tyr Ala
1 5 10 15

5880

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Xaa
 20 25 30

Leu Xaa Gly Xaa Gly Leu
 35

<210> 6643

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

5881

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6643

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Arg | Xaa | Xaa | Xaa | Leu | Arg | Xaa | Asp | Thr | Thr | His | Tyr | Arg | Glu | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Xaa | Thr | His | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Glu | Ile | Cys | Pro | Pro | Xaa | Ser | Arg | Pro | Xaa | Ser | Ser | Gln | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Gly | Glu | Gly | Tyr | Ser | Xaa | Cys | Arg | Arg | Pro | Gln | Ala | Leu | Glu | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Thr | Tyr | Leu | Asn | Pro | Val | Pro | Xaa | Arg | Ile | Leu | Leu | Lys | Pro | Phe |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

<210> 6644

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

5882

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6644

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Xaa | Ala | Trp | Xaa | Leu | Xaa | Thr | Gln | Leu | Gly | Thr | Thr | His | Tyr | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ser | Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Ala | Ser | Gly | Lys | Thr | Trp | Ile | Ile | Xaa | Val | Cys | Cys | Thr | Arg | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Gly | Xaa | Leu | Thr | Ala | Lys | Asn | Asp |
| | 50 | | | | | | 55 | | |

<210> 6645

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

5883

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6645

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gly | Ile | Gln | Leu | Xaa | Xaa | Xaa | Arg | Leu | Gly | Thr | Thr | His | Tyr | Arg |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ser | Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Ala | Xaa | Asp | Xaa | Met | Xaa | Leu | Trp | Leu | Leu | Gln |
| | | 35 | | | | | 40 | | | | |

<210> 6646

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

5884

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6646

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Pro | Val | Gly | Thr | Thr | His | Tyr | Arg | Glu | Xaa | Trp | Tyr | Ala | Cys | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Gly | Ala | Glu | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ile | Xaa | Leu | Glu | Ala | Gly | Lys | Asn | Gln | Xaa | Val | Leu | Xaa | Cys |
| | | | 35 | | | | | 40 | | | | | 45 | | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Gly | Gln | Gly | Leu | Glu | Arg | Pro | Xaa | Pro |
| | | | | | | | 55 | | | |

<210> 6647

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6647

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Cys | Asn | Thr | Xaa | His | Tyr | Arg | Glu | Ser | Trp | Xaa | Ala | Cys | Arg | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

5885

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Asp Ser Lys Asp Xaa
 20 25 30

Ser Val Asp Gly Ser Xaa
 35

<210> 6648

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6648

Pro Ile Phe Xaa Trp Lys His Ala Met Thr Met Ile Thr Pro Ser Ser
 1 5 10 15

Asn Thr Thr His Tyr Arg Xaa Ser Trp Xaa Ala Cys Arg Tyr Arg Ala
 20 25 30

Gly Ile Pro Gly Ser Thr His Ala Ser Gly Asp Xaa Xaa
 35 40 45

<210> 6649

5886

<211> 92
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (85)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6649
 Tyr Glu Xaa Xaa Lys Leu Leu Arg Glu Ser Xaa Asn Asn Phe Thr Gln
 1 5 10 15
 Glu Thr Ala Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His Tyr
 20 25 30
 Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser
 35 40 45
 Thr His Ala Ser Gly Pro Ser Arg Glu Ile Pro Arg Ser Leu His Leu
 50 55 60
 Val Ile Xaa Thr Glu His Arg Pro Pro Thr Met Glu Leu Gly Leu Ser
 65 70 75 80
 Trp Ile Xaa Leu Xaa Ala Met Ile Lys Gly Val Asn

5887

85

90

<210> 6650
 <211> 71
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 <213> Homo sapiens

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<400> 6650
 Leu Pro Xaa Xaa Xaa Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala
 1 5 10 15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Glu Lys
 20 25 30

5888

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Lys Lys
35 40 45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
50 55 60

Lys Lys Lys Xaa Gly Xaa Xaa
65 70

<210> 6651

<211> 64

<212> PRT

<213> Homo sapiens

<220>

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<222> (9)

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<223> Xaa equals any of the naturally occurring L-amino acids

5889

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<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6651

Asn Leu Thr Gln Val Ala Ala Met Xaa Met Ile Thr Xaa Xaa Ser Asn
1 5 10 15

Thr Thr His Tyr Arg Glu Ser Xaa Tyr Ala Cys Arg Tyr Arg Ser Gly
20 25 30

Ile Pro Gly Ser Thr His Ala Leu Arg Tyr Cys Gly Pro Xaa Ala His
35 40 45

Arg Phe Thr Ser Pro Pro Cys Xaa Ser Leu Xaa Leu Xaa Met Leu Met
50 55 60

<210> 6652

<211> 52

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6652

Thr Cys Ser Pro Gly Lys Xaa Xaa Thr Ile Leu His Arg Lys Thr Ala
1 5 10 15

5890

Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His Tyr Arg Glu Ser
 20 25 30

Xaa Xaa Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala
 35 40 45

Ser Gly Gln Ala
 50

<210> 6653

<211> 39

<212> PRT

<213> Homo sapiens

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<400> 6653

Gln Glu Thr Ala Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His
 1 5 10 15

Tyr Arg Asp Cys Trp Xaa Ala Cys Arg Tyr Arg Ala Gly Ile Xaa Gly
 20 25 30

Ser Thr His Ala Ser Xaa Arg
 35

<210> 6654

<211> 62

<212> PRT

<213> Homo sapiens

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5891

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<220>
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<400> 6654
 Leu Leu Asp Asn Thr Leu Thr Gln Xaa Thr Ala Met Thr Met Ile Thr
 1 5 10 15
 Pro Ser Ser Asn Thr Thr His Tyr Arg Xaa Xaa Trp Tyr Ala Cys Xaa
 20 25 30
 Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Val Xaa Arg Leu
 35 40 45
 Leu Ala Thr Cys Phe Ala Arg Xaa Arg Xaa Thr Tyr Xaa Thr
 50 55 60

5892

<210> 6655

<211> 73

<212> PRT

<213> Homo sapiens

<220>

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<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6655

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asn | Xaa | Xaa | Thr | Gln | Asp | Thr | Ala | Met | Thr | Met | Ile | Thr | Pro | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Asn | Thr | Thr | His | Tyr | Arg | Xaa | Ser | Cys | Tyr | Ala | Cys | Xaa | Tyr | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Ala | Phe | Gly | Val | His | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Gly | Ser | Leu | Asn | Phe | Leu | Ser | Asn | Leu | Glu | Cys | Leu | Leu | His |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Phe | Asn | Phe | Cys | Lys | Cys | Leu | Lys |
| 65 | | | | | 70 | | | |

<210> 6656

5893

<211> 103
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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 <222> (101)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6656
 Leu Xaa Cys Thr Lys Lys Lys Lys Lys Gly Gly Arg Ser Arg Gly Ser
 1 5 10 15
 Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Val Ser
 20 25 30
 Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu
 35 40 45
 Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Xaa Pro Phe
 50 55 60
 Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln
 65 70 75 80
 Gln Leu Arg Ser Leu Asn Gly Glu Trp Asp Ala Pro Cys Ser Gly Ala
 85 90 95
 Leu Ser Ala Xaa Xaa Val Xaa
 100

5894

<210> 6657
<211> 109
<212> PRT
<213> Homo sapiens

<220>
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<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (96)
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<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6657
Ile Ala Ser Gly Arg Ser Arg Gly Xaa Lys Leu Thr Tyr Ala Cys Met
1 5 10 15

5895

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
20 25 30

Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu
35 40 45

Asn Xaa Leu Ala Xaa His Pro Pro Phe Xaa Ser Trp Arg Asn Ser Glu
50 55 60

Glu Ala Arg Thr Asp Arg Pro Phe Gln Gln Leu Arg Ser Leu Asn Gly
65 70 75 80

Glu Trp Asp Ala Pro Cys Ser Gly Ala Leu Ser Ala Ala Xaa Val Xaa
85 90 95

Val Thr Arg Ser Val Thr Val Thr Leu Ala Arg Xaa Xaa
100 105

<210> 6658

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5896

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6658

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Lys | Xaa | Glu | Lys | Xaa | Lys | Gly | Gly | Arg | Ser | Arg | Gly | Ser | Lys |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Tyr | Ala | Cys | Met | Arg | Arg | His | Ser | Ser | Ser | Ile | Gly | Ser | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Xaa | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Val | Thr | Gln | Leu | Arg | Gly | Xaa | Gly | Ser | Thr | Xaa | Pro | Xaa | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Ala | Glu | Glu | Arg | Arg | Gly | Ala | Ala | Pro | Ile | Ala | Leu | Ala | Asn |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

Ser Cys Ala Ala

<210> 6659

<211> 101

<212> PRT

<213> Homo sapiens

<220>

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<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

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<220>

5897

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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<400> 6659
 Lys Xaa Lys Lys Lys Lys Gly Gly Arg Ser Xaa Gly Ser Lys Leu Thr
 1 5 10 15
 Tyr Ala Cys Met Xaa Arg His Ser Ser Ser Ile Xaa Ser Pro Lys Phe
 20 25 30
 Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly
 35 40 45
 Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp
 50 55 60
 Arg Asn Ser Xaa Lys Ala Arg Thr Asp Arg Pro Xaa Gln Gln Leu Arg
 65 70 75 80
 Ser Leu Asn Gly Xaa Met Gly Thr Arg Pro Val Thr Gly Ala Leu Ser
 85 90 95
 Xaa Ala Gly Trp Xaa
 100

<210> 6660
 <211> 92
 <212> PRT

5898

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6660

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Xaa | Xaa | Xaa | Ser | Gly | Arg | Ser | Arg | Gly | Ser | Lys | Leu | Thr | Tyr | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Met | Arg | Arg | Tyr | Ser | Tyr | Ser | Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Val | Val | Leu | Gln | Arg | Xaa | Asp | Trp | Glu | Asn | Pro | Gly | Val | Thr |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Asn | Arg | Leu | Ala | Ala | His | Pro | Pro | Phe | Ala | Ser | Trp | Cys | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Glu | Glu | Ala | Arg | Thr | Asp | Arg | Pro | Ser | Gln | Gln | Leu | Arg | Lys | Leu |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5899

```

65              70              75              80
Asn Gly Glu Trp Asp Pro Ala Leu Xaa Arg Gly Xaa
      85              90

<210> 6661
<211> 59
<212> PRT
<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6661
Asn Thr Lys Asn Pro Xaa Lys Lys Lys Lys Lys Lys Gly Gly Arg Ser
 1              5              10              15
Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser
      20              25              30
Ile Val Xaa Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Xaa
      35              40              45
Xaa Trp Glu Asn Pro Gly Val Thr Gln Xaa Asn
      50              55

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5900

<210> 6662

<211> 71

<212> PRT

<213> Homo sapiens

<400> 6662

Ile Lys Val Ile Thr Ile Lys Lys Lys Lys Lys Lys Gly Gly Arg Ser
1 5 10 15

Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser
20 25 30

Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg
35 40 45

Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His
50 55 60

Pro Pro Phe Ala Ser Trp Pro
65 70

<210> 6663

<211> 61

<212> PRT

<213> Homo sapiens

<220>

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<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6663

Xaa Xaa Asp Leu Xaa Cys Gln Xaa Asp Tyr Arg Glu Ser Trp Tyr Ala

5901

| | | | |
|---|----|----|----|
| 1 | 5 | 10 | 15 |
| Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Gln | | | |
| | 20 | 25 | 30 |
| Leu Leu Arg Ser Glu Pro Phe Pro Leu His Phe Leu Phe Thr Gln Gly | | | |
| | 35 | 40 | 45 |
| Gly Ala Gly Ser Gly Gly Arg Lys Leu Gly Gly Gly Val | | | |
| | 50 | 55 | 60 |

<210> 6664

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

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<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6664

| |
|---|
| Ile Ala Ser Gly Arg Ser Ile Gly Ser Lys Leu Thr Tyr Ala Cys Met |
| 1 5 10 15 |

| |
|---|
| Arg Arg His Asn Ser Ser Xaa Val Ser Pro Lys Xaa Asn Ser Leu Ala |
| 20 25 30 |

| |
|---|
| Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Xaa |
| 35 40 |

<210> 6665

<211> 45

<212> PRT

<213> Homo sapiens

<220>

5902

<221> SITE
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6665
Gly Xaa Xaa Leu Thr Phe Pro Phe Met Xaa Xaa His Asn Ser Ser Ile
1 5 10 15
Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Pro Asp
20 25 30
Trp Xaa Xaa Lys Asn Xaa Arg Asn Xaa Lys Val Arg Arg
35 40 45

5903

<210> 6666
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
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<220>
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<400> 6666
 Thr Ser Ser Arg Xaa Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr
 1 5 10 15
 Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Xaa
 20 25 30
 Asn Ser Leu Ala Val Val Xaa Gln Arg Arg Asp Trp Glu Asn Pro Arg
 35 40 45
 Xaa Ser Cys Gly Ser
 50

<210> 6667
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

5904

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6667

Thr Ser Ser Ser Ile Ala Ser Gly Arg Ser Arg Arg Ser Lys Leu Thr
1 5 10 15

Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe
20 25 30

Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Pro Gln Lys
35 40 45

Xaa Xaa Xaa
50

<210> 6668

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>

<221> SITE

5905

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6668

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Arg | Tyr | Ala | Cys | Met | Arg | Arg | His | Ser | Ser | Ser | Ile | Xaa | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Lys | Phe | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Xaa | Xaa | Lys | Ser | Cys | Lys | Arg | Gly | Xaa | Glu | Leu | Asn | Leu | Val | Xaa |
| | | | 35 | | | | 40 | | | | | | 45 | | |

| | | | |
|-----|-----|-----|-----|
| Tyr | Arg | Arg | Leu |
| | | | 50 |

<210> 6669

<211> 46

<212> PRT

<213> Homo sapiens

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6669

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Phe | Ile | Xaa | Ala | Pro | Lys | Phe | Asn | Ser | Leu | Gly | Pro | Ser | Phe | Thr |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Xaa | Asp | Trp | Glu | Asn | Pro | Gly | Val | Thr | Gln | Leu | Xaa | Arg | Leu | Gly |
| | | | 20 | | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asn | Pro | Pro | Phe | Ala | Asn | Trp | Gly | Ile | Thr | Lys | Lys | Ala |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5906

35

40

45

<210> 6670
<211> 29
<212> PRT
<213> Homo sapiens

<220>
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<400> 6670
Ile Gln Phe Thr Xaa Arg Xaa Leu Gln Xaa Xaa Asp Trp Glu Asn Pro
1 5 10 15

Gly Val Xaa Gln Leu Asn Arg Leu Ala Ala His Pro Pro
20 25

<210> 6671
<211> 158
<212> PRT
<213> Homo sapiens

<220>
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<222> (5)

5907

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<220>

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5908

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<222> (81)
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<220>
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<220>
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5909

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<220>
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<400> 6671
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 1 5 10 15
 His Leu Pro Arg Leu Val Ser Arg Thr Pro Gly Thr Xaa Pro Xaa Tyr
 20 25 30
 Xaa His Ser Tyr Leu Gly Ser Ala Arg Glu Arg Gln Ala Arg Ser Glu
 35 40 45
 Gly Xaa Ser Xaa Gly Gly Xaa Leu Glu Thr Pro Ser Lys Arg Ser Ala
 50 55 60
 Gln Ile Gly Pro Arg Xaa Ala Ser Tyr Tyr Ala Trp Ser Xaa Pro Gly
 65 70 75 80
 Xaa Tyr Lys Ala Gly Ser Ser Gln Asp Asp Gln Glu Asp Ala Cys Asp
 85 90 95
 Asp Ala Leu Ser Xaa Tyr Ser Xaa Leu Glu Leu Thr Arg Xaa Xaa Ser
 100 105 110
 Tyr Arg Gly Arg Ser Xaa Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg
 115 120 125
 Arg His Ser Ser Ser Ile Xaa Xaa Pro Lys Xaa Asn Ser Leu Ala Val
 130 135 140
 Xaa Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln
 145 150 155

<210> 6672
 <211> 77
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (14)

5910

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6672

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Asn | Val | Thr | Ile | Lys | Ser | Ser | Lys | Val | Lys | Lys | Xaa | Xaa | Lys |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Arg | Ser | Arg | Gly | Ser | Lys | Leu | Thr | Tyr | Ala | Cys | Met | Arg | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Xaa | Ser | Ser | Ile | Val | Ser | Pro | Lys | Xaa | Asn | Ser | Leu | Ala | Gly | Xaa |
| | | 35 | | | | | | 40 | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Thr | Thr | Val | Val | Thr | Gly | Lys | Asn | Pro | Gly | Val | Thr | Gln | Leu | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Cys | Xaa | His | Ile | Pro | Pro | Phe | Arg | Gln | Leu | Ala |
| 65 | | | | | 70 | | | | | 75 | | |

<210> 6673

<211> 77

<212> PRT

<213> Homo sapiens

<220>

5911

<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (19)
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<220>
<221> SITE

5912

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6673

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Gln | Xaa | Xaa | Ser | Leu | Asn | Gly | Xaa | Trp | His | Ala | Pro | Cys | Ser | Gly |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Xaa | Ala | Ala | Xaa | Val | Val | Asp | Thr | Arg | Ser | Val | Thr | Ala | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Ser | Xaa | Leu | Arg | Pro | Leu | Leu | Xaa | Leu | Tyr | Phe | Pro | Ser | Phe |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Thr | Phe | Ser | Arg | Leu | Ser | Pro | Xaa | Lys | Leu | Xaa | Asn | Arg | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Leu | Xaa | Gly | Val | Pro | Ile | Leu | Xaa | Ala | Phe | Tyr |
| 65 | | | | | 70 | | | | | 75 | | |

<210> 6674

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

5913

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6674

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | His | Ser | Ser | Ile | Val | Ser | Pro | Lys | Phe | Asn | Ser | Leu | Ala | Val |
| 1 | | | | 5 | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Pro | Gly | Val | Thr | Gln | Leu | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Ala | Ala | His | Xaa | Pro | Phe | Ala | Ser | Trp | Xaa | Asn | Ser | Glu | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Thr | Asp | Arg | Thr | Ser | Gln | Gln | Leu | Arg | Ser | Leu | Asn | Gly | Glu |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Asp | Ala | Pro | Cys | Ser | Gly | Ala | Leu | Xaa | Ala | Ala | Gly | Val | Val | Val |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Arg | Xaa | Xaa | Thr | Ala | Thr | Leu | Xaa | Ser |
| | | | | 85 | | | | 90 | |

<210> 6675

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

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<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

5914

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6675

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Met | Arg | Arg | His | Ser | Xaa | Xaa | Ile | Xaa | Xaa | Pro | Lys | Phe | Asn | Ser |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Glu | Asn | Pro | Gly | Val | Thr |
| | | | 20 | | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Asn | Arg | Leu | Ala | Ala | His | Pro | Pro | Phe | Ala | Ser | Trp | Arg | Asn |
| | | 35 | | | | | 40 | | | | | | 45 | | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Glu | Glu | Ala | Arg | Thr | Asp | Arg | Pro | Ser | Gln | Gln | Leu | Arg | Ser |
| | 50 | | | | | | 55 | | | | | 60 | | |

<210> 6676

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

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<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5915

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6676

Ile Lys Leu Gly Asn Gln Lys Lys Lys Lys Lys Xaa Lys Gly Gly Arg
1 5 10 15

Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser
20 25 30

Ser Ile Val Xaa Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg
35 40 45

Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala
50 55 60

His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp
65 70 75 80

Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Asp Ala Pro
85 90 95

Cys Ser Gly Ala Leu Ser Ala Ala Gly Val Val Val Thr Pro Gln Arg
100 105 110

Asp Pro Leu His Leu Pro Xaa Pro Tyr Arg Pro Xaa Pro Ser Leu Ser
115 120 125

Ser Leu Pro Xaa Xaa Pro Arg Ser Pro
130 135

<210> 6677

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6677

Glu Asn Pro Gly Gly Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro

5916

| | | | |
|---|----|----|----|
| 1 | 5 | 10 | 15 |
| Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser | 20 | 25 | 30 |
| Gln Gln Leu Arg Xaa Leu Asn Gly Glu Trp Asp Ala Pro Cys Ser Gly | 35 | 40 | 45 |
| Ala Leu Ser Ala Ala Gly Val Val Gly Thr Arg Ser Xaa Thr Ala Thr | 50 | 55 | 60 |
| Leu Ala Ala Pro Ser Ala Ala Leu Ser Leu Leu Pro Ser Phe Ser His | 65 | 70 | 75 |
| Val Gly Gly Phe Pro Val Ser Ser Asn Gly Ala Pro | 85 | 90 | |

<210> 6678

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6678

Leu Ile Asp Arg Ser Xaa Arg Tyr Leu Pro Leu Xaa Ile Ile Leu Lys

5917

| 1 | 5 | 10 | 15 | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Xaa | Ala | Met | Val | Phe | Asn | Thr | Phe | Asn | Val | Leu | His | Trp | Gln |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Arg | Ile | Xaa | Asp | Gln | Ser | Leu | Pro | Tyr | His | Asn | Ile | Thr | Tyr | Xaa | |
| | | 35 | | | | | 40 | | | | | 45 | | | |

<210> 6679

<211> 147

<212> PRT

<213> Homo sapiens

<220>

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<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (49)

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<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5918

<221> SITE

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<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6679

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Pro | Pro | Tyr | Cys | Pro | Lys | Ile | Gln | Ser | Pro | Pro | Tyr | Ser | Ser | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Thr | Ser | Asp | Ala | Ser | Leu | Trp | Thr | Pro | Pro | Gln | Gly | Cys | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Thr | Gln | Xaa | Ser | Pro | Glu | Pro | Arg | Asn | Pro | Pro | Val | Pro | Trp | Thr |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Val | Pro | Ala | Thr | Leu | Glu | Leu | Ala | Ala | Val | Tyr | Gln | Gly | Leu | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Pro | Glu | Pro | Cys | Leu | Ser | Leu | Gly | Ala | Pro | Ser | Leu | Leu | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Xaa | Xaa | Cys | Gln | Arg | Leu | Gln | Pro | Gln | Thr | Xaa | Gly | Xaa | Cys | Trp |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | His | Ser | Ala | Glu | Val | Val | Pro | Asn | Ser | Glu | Asp | Gln | Gly | Pro | Gly |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Phe | Gln | Leu | Ser | Glu | Xaa | Ser | Pro | Thr | Gln | Ser | Ser | Xaa | Leu |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Phe | Ser | Gly | Cys | Pro | Glu | Leu | Trp | Gln | Glu | Xaa | Leu | Glu | Gly | Ala |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | |
|-----|-----|-----|
| Xaa | Leu | Gly |
| 145 | | |

<210> 6680

<211> 172

<212> PRT

<213> Homo sapiens

5919

<220>
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 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (158)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (159)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (167)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (170)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (172)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6680
 Phe Trp Leu Ala Gly Pro Lys Glu Glu Xaa Met Asp Xaa Asp Ile Pro
 1 5 10 15
 Ala Val Lys Val Lys Glu Glu Pro Arg Asp Glu Glu Glu Glu Ala Lys
 20 25 30
 Met Lys Ala Pro Pro Lys Ala Ala Arg Lys Thr Pro Gly Leu Pro Lys
 35 40 45
 Asp Val Ser Val Ala Glu Leu Leu Arg Glu Leu Ser Leu Thr Lys Glu
 50 55 60
 Glu Glu Leu Leu Phe Leu Gln Leu Pro Asp Thr Leu Pro Gly Gln Pro
 65 70 75 80

5920

Pro Thr Gln Asp Ile Lys Pro Ile Lys Thr Glu Val Gln Gly Glu Asp
 85 90 95

Gly Gln Val Val Leu Ile Lys Gln Glu Lys Asp Arg Glu Ala Lys Leu
 100 105 110

Ala Glu Asn Ala Cys Thr Leu Ala Asp Leu Thr Glu Gly Gln Val Gly
 115 120 125

Lys Leu Leu Ile Arg Lys Ser Gly Arg Val Gln Leu Leu Leu Gly Lys
 130 135 140

Val Thr Leu Asp Val Asp His Gly Asn Cys Leu Leu Leu Xaa Xaa Gly
 145 150 155 160

Ala Gly Val Arg Gly Pro Xaa Arg Gln Xaa Asp Xaa
 165 170

<210> 6681

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6681

Ile Ala Ala Ala Arg Val Trp Arg Leu Asn Arg Gly Leu Ser Gln Ala
 1 5 10 15

Ala Leu Leu Leu Leu Arg Gln Pro Gly Ala Arg Gly Leu Ala Arg Ser

5921

20 25 30
 Val Ser Thr Trp Ala Pro Gly Gly Phe Pro Lys Gly Asp Xaa Gly Cys
 35 40 45
 Lys Gly Tyr Leu Xaa Xaa Xaa
 50 55

<210> 6682
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 6682
 Gly Leu Gln Ser Asn Met Pro Lys Phe Tyr Cys Asp Tyr Cys Asp Thr
 1 5 10 15
 Tyr Leu Thr His Asp Ser Pro Ser Val Arg Lys Thr His Cys Ser Gly
 20 25 30
 Arg Lys His Lys Glu Asn Val Lys Asp Tyr Tyr Leu Leu Leu His Ser
 35 40 45
 Leu Leu Leu Leu Leu Gln Gly Arg
 50 55

<210> 6683
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 6683
 Ser Phe Arg Arg Pro Met Ala Ser Ala Ser Thr Gln Pro Ala Ala Leu
 1 5 10 15
 Ser Ala Glu Gln Ala Lys Val Val Leu Ala Glu Val Ile Gln Ala Phe
 20 25 30
 Ser Ala Pro Glu Asn Ala Val Arg Met Asp Glu Ala Arg Asp Asn Ala
 35 40 45
 Cys Asn Asp Met Gly Val Leu Lys Phe Ala Arg Leu Val Lys Ser Tyr
 50 55 60
 Glu Ala Gln Asp Pro Glu Ile Ala Ser Leu Ser Gly Lys Leu Lys Ala
 65 70 75 80

5922

Leu Phe Leu Pro Pro Met Thr Leu Pro Pro His Gly Pro Ala Ala Gly
 85 90 95

Gly Ser Val Ala Ala Ser
 100

<210> 6684

<211> 97 ,

<212> PRT

<213> Homo sapiens

<400> 6684

Pro Arg Val Arg Ala Asp Ile Asn Thr Lys Trp Ala Ala Thr Arg Trp
 1 5 10 15

Ala Lys Lys Ile Glu Ala Arg Glu Arg Lys Ala Lys Met Thr Asp Phe
 20 25 30

Asp Arg Phe Lys Val Met Lys Ala Lys Lys Met Arg Asn Arg Ile Ile
 35 40 45

Lys Asn Glu Val Lys Lys Leu Gln Lys Ala Ala Leu Leu Lys Ala Ser
 50 55 60

Pro Lys Lys Ala Pro Gly Thr Lys Gly Thr Ala Ala Ala Ala Ala Ala
 65 70 75 80

Ala Ala Ala Ala Ala Ala Lys Val Pro Ala Lys Lys Ile Thr Ala Ala
 85 90 95

Asn

<210> 6685

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

5923

<400> 6685

Asn Ala Xaa Ile Ser Ser Leu Gly Ala Pro Gly Thr Gly Xaa Glu Phe
1 5 10 15

Pro Gly Arg Pro Thr Arg Pro Leu Met Glu Lys Glu Phe Pro Gly Phe
20 25 30

Leu Glu Asn Gln Lys Asp Pro Leu Ala Val Asp Lys Ile Met Lys Asp
35 40 45

Leu Asp Gln Cys Arg Asp Gly Lys Val Gly Phe Gln Ser Phe Phe Ser
50 55 60

Leu Ile Ala Gly Leu Thr Ile Ala Cys Asn Asp Tyr Phe Val Val His
65 70 75 80

Met Lys Gln Lys Gly Lys Lys
85

<210> 6686

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

5924

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (98)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (102)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (106)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6686
 Thr Ile Gly Xaa Gly Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro
 1 5 10 15
 Gly Arg Pro Thr Leu Ser Ser Ala Phe Pro Leu Xaa Thr Ser Thr Leu
 20 25 30
 Ile Gln Xaa Lys Tyr Asp Pro Ser Leu Lys Pro Leu Xaa Xaa Ser Tyr
 35 40 45
 Asp Gln Ala Thr Ser Leu Arg Ile Leu Asn Asn Gly His Ala Phe Asn
 50 55 60
 Xaa Glu Leu Asp Asp Ser Xaa Asp Lys Ala Val Leu Lys Gly Gly Pro
 65 70 75 80
 Leu Asp Gly Thr Asn Arg Trp Ile Lys Leu His Phe Asn Trp Gly Xaa
 85 90 95
 Leu Xaa Gly Gln Arg Xaa Lys Thr Tyr Xaa

5925

100

105

<210> 6687

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5926

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6687

Ser Ser Arg Leu Ala Phe Pro Lys Ala Thr Glu Glu Xaa Lys Ala Ser
 1 5 10 15

Lys Pro His His Glu Trp Pro Ser Gly Thr Xaa Phe Ala Arg Thr Gly
 20 25 30

Asp Pro Asn Ser Xaa Ala Leu Pro Pro Trp Pro Gln Phe Asn Gln Ala
 35 40 45

Glu Thr Ile Ser Gly Asn Gln Pro Xaa Ala Xaa Gly Arg Thr Lys Phe
 50 55 60

Gln Gly Gly Leu Asp Ala Ile Leu Val Lys Asn Pro Pro Gln Gln Asn
 65 70 75 80

Thr Thr Trp Pro Xaa Xaa Gln Lys Asn Arg Lys Gly Pro Gly Gly Thr
 85 90 95

Xaa Glu Gly Arg Pro Lys Xaa Phe Leu Gly Leu Gly Gln Thr
 100 105 110

<210> 6688

<211> 129

<212> PRT

<213> Homo sapiens

<400> 6688

Gly Phe Asn Asp Glu Leu Glu Ala Phe Lys Glu Arg Val Arg Gly Arg
 1 5 10 15

Ala Lys Leu Arg Ile Glu Lys Ala Met Lys Glu Tyr Glu Glu Glu
 20 25 30

Arg Lys Lys Arg Leu Gly Pro Gly Gly Leu Asp Pro Val Glu Val Tyr
 35 40 45

Glu Ser Leu Pro Glu Glu Leu Gln Lys Cys Phe Asp Val Lys Asp Val
 50 55 60

Gln Met Leu Gln Asp Ala Ile Ser Lys Met Asp Pro Thr Asp Ala Lys
 65 70 75 80

Tyr His Met Gln Arg Cys Ile Asp Ser Gly Leu Trp Val Pro Asn Ser
 85 90 95

5927

Lys Ala Lys Arg Arg Pro Arg Arg Glu Arg Arg Gln Val Leu Gly Thr
 100 105 110

His Tyr Trp Lys Leu Phe Pro Arg Arg Ala Met Arg Arg Met Ser Ser
 115 120 125

Val

<210> 6689

<211> 177

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6689

Gly Phe Ile Ile Asp Asp Ser Val Leu Tyr Ser Gly Ala Ser Leu Asn
 1 5 10 15

Asp Val Tyr Leu His Gln His Asp Lys Tyr Arg Tyr Asp Arg Tyr His
 20 25 30

Leu Ile Arg Asn Arg Lys Met Ser Asp Ile Met Phe Glu Trp Val Thr
 35 40 45

Gln Asn Ile Met Asn Gly Arg Gly Val Asn Arg Leu Asp Asp Val Asn
 50 55 60

Arg Pro Lys Ser Pro Glu Ile Lys Asn Asp Ile Arg Leu Phe Arg Gln
 65 70 75 80

Glu Leu Arg Asp Ala Ala Tyr His Phe Gln Gly Asp Ala Asp Asn Asp
 85 90 95

Gln Leu Ser Val Thr Pro Leu Val Gly Leu Gly Lys Ser Ser Leu Leu
 100 105 110

Asn Lys Thr Ile Phe His Leu Met Pro Cys Ala Glu Gln Lys Leu Thr
 115 120 125

Ile Cys Thr Pro Tyr Phe Asn Leu Pro Ala Ile Leu Val Arg Asn Ile
 130 135 140

Ile Gln Leu Leu Arg Glu Gly Lys Lys Val Glu Ile Ile Val Gly Asp
 145 150 155 160

5928

Lys Thr Xaa Asn Asp Phe Tyr Ile Pro Glu Asp Glu Pro Phe Lys Ile
165 170 175

Ile

<210> 6690

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

 $\langle 222 \rangle$ (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6690

His Glu Leu Val Arg Leu Xaa Gly Gly Cys Xaa Leu Leu Arg Cys Ile
1 5 10 15

Pro Ala Leu Asp Ser Leu Thr Pro Ala Asn Glu Asp Gln Lys Ile Gly
20 25 30

Ile Glu Ile Ile Lys Arg Thr Leu Lys Ile Pro Ala Met Thr Ile Ala
35 40 45

Lys Asn Ala Gly Val Glu Gly Ser Leu Ile Val Glu Lys Ile Met Gln
50 55 60

Ser Ser Ser Glu Val Gly Tyr Asp Ala Met Ala Gly Asp Phe Val Lys
65 70 75 80

Tyr Gly Gly Lys Arg Glu Ser Leu Thr Gln Gln Arg Leu
85 90

<210> 6691

<211> 105

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

5929

<221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6691
 Gly Val Thr Phe Pro Val Pro Gln Ser Xaa Asp Ser Leu Leu Arg Ala
 1 5 10 15
 Val Gly Pro Cys Pro Gln Gln Leu Gly Thr Gln Thr Thr Xaa Glu Arg
 20 25 30
 Glu Ser Gln Ala Ser Asn Thr Lys Val Thr Arg Asp Xaa Pro Lys Ser
 35 40 45
 Cys Asp Lys Thr Thr His Ala His Arg Xaa Arg Pro Glu Leu Leu Gly
 50 55 60

5930

Gly Pro Gln Leu Leu Phe Xaa Gln Asn Pro Arg His Ala Met Ile Ser
65 70 75 80

Arg Pro Leu Xaa His Met Arg Gly Gly Asp Xaa Ser His Glu Asp Pro
85 90 95

Glu Ala Ser Gln Leu Asp Val Asp Xaa
100 105

<210> 6692

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6692

Arg Arg Val Ser Pro Gly Lys Asn Phe Pro Pro Gly Gly Val Pro Gly
1 5 10 15

Thr Pro Gln Thr Gly Arg Phe Ser Gly Ala Pro Gly Gly Gly Lys Arg
20 25 30

Gly Pro Ser Leu Arg Lys Lys Lys Gly Gly Gly Pro Ala Gln Phe Gly
35 40 45

Pro Xaa Ser Pro Lys Pro Gln Phe Arg Gly Gln Gly Pro Gly Ile Ser
50 55 60

Pro Trp Val Leu Leu Gly Ile Gln Pro Gly Gly Trp Gly Glu Arg Gly
65 70 75 80

Glu Thr Pro Ser Gly Arg Ser Pro Cys Arg Gly Xaa Ala Pro Leu Gly
85 90 95

5931

Gly Gly Arg Thr Thr Ser Lys Leu Leu Glu Thr Xaa Ser Pro Glu Cys
100 105 110

Leu

<210> 6693

<211> 215

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

5932

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6693

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Phe | Ser | Tyr | Glu | Leu | Ser | Lys | Val | Glu | Gly | Lys | Thr | Gly | Thr | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Pro | Leu | Ser | Asp | Leu | Gly | Leu | Leu | Ser | Tyr | Arg | Ser | Tyr | Trp |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gln | Thr | Ile | Leu | Glu | Ile | Leu | Met | Gly | Leu | Lys | Ser | Glu | Ser | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Arg | Pro | Gln | Ile | Thr | Ile | Asn | Glu | Ile | Ser | Glu | Ile | Thr | Ser | Ile |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Glu | Asp | Val | Ile | Ser | Thr | Leu | Gln | Tyr | Leu | Asn | Leu | Ile | Asn |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Tyr | Lys | Gly | Gln | Tyr | Ile | Leu | Thr | Leu | Ser | Glu | Asp | Ile | Val | Asp |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | His | Glu | Arg | Ala | Met | Leu | Lys | Arg | Leu | Leu | Arg | Ile | Arg | Leu | Gln |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Ala | Xaa | Ile | Pro | Arg | Asp | Trp | Xaa | Lys | Lys | Gly | Gly | Xaa | Gly |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Gln | Thr | Leu | Ala | Thr | Gly | Ile | Ala | Gln | Asp | Gly | Xaa | Gln | Gly | Leu |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Leu | Asn | Ser | Pro | Xaa | Xaa | Ala | Pro | Xaa | Trp | Lys | Xaa | Pro | Thr |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ala | Thr | Phe | Lys | Gly | Lys | Met | Gly | Leu | Glu | Gly | Gln | Val | Gln | Lys |
| | | | 165 | | | | | 170 | | | | | | 175 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Asp | Arg | Thr | Arg | Ala | Leu | Ala | Gly | Gly | Pro | Thr | Gly | Trp | Pro | Asn |
| | | | 180 | | | | | 185 | | | | | 190 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Xaa | Ala | Lys | Leu | Pro | Gly | Leu | Arg | Pro | Thr | Phe | Lys | Gly | Gln | Xaa |
| | | 195 | | | | | 200 | | | | | 205 | | | |

5933

Gly Pro Lys Ala Gln Gly Phe
 210 215

<210> 6694

<211> 94

<212> PRT

<213> Homo sapiens

<400> 6694

Gly Tyr Thr Arg Ala Glu Tyr Glu Ser Glu Ala Glu Gly Val Met Ala
 1 5 10 15

Gly Gln Ala Phe Arg Lys Phe Leu Pro Leu Phe Asp Arg Val Leu Val
 20 25 30

Glu Arg Ser Ala Ala Glu Thr Val Thr Lys Gly Gly Ile Met Leu Pro
 35 40 45

Glu Lys Ser Gln Gly Lys Val Leu Gln Ala Thr Val Val Ala Val Gly
 50 55 60

Ser Gly Ser Lys Gly Lys Gly Gly Glu Ile Gln Pro Val Ser Val Lys
 65 70 75 80

Val Gly Asp Lys Val Leu Leu Pro Glu Tyr Gly Gly Pro Lys
 85 90

<210> 6695

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6695

Gly Ser Val Ser Pro Val Pro Val Ala Pro Leu Pro Pro Xaa Thr Met
 1 5 10 15

5934

Gly Pro Gly Pro Arg Leu Leu Leu Pro Leu Val Leu Cys Val Gly Leu
20 25 30

Gly Ala Leu Val Phe Ser Ser Gly Ala Glu Gly Phe Arg Lys Arg Gly
35 40 45

Pro Ser Val Thr Ala Lys Val Phe Phe Asp Val Arg Ile Gly Asp Lys
50 55 60

Asp Val Gly Arg Ile Val Ile Gly Leu Phe Gly Lys Val Val Pro Lys
65 70 75 80

Thr Val Glu Asn Phe Val Ala Leu Ala Thr Gly Glu Lys Gly Tyr Gly
85 90 95

Tyr Lys Gly Ser Lys Phe Ser Ser Cys His Gln Gly Phe His Asp Xaa
100 105 110

<210> 6696

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

5935

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6696

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Arg | Asp | Val | Ser | Arg | Glu | Ser | Thr | Tyr | Gln | Gly | His | His | Thr | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Gln | Lys | Gly | Leu | Arg | Tyr | Gly | Ile | Ile | Xaa | Phe | Xaa | Thr | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Val | Phe | Phe | Phe | Xaa | Gly | Phe | Phe |
| | | 35 | | | | | 40 | |

<210> 6697

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6697

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Arg | Asp | Val | Xaa | Arg | Glu | Ser | Thr | Tyr | Gln | Gly | His | His | Thr | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Gln | Lys | Gly | Leu | Arg | Tyr | Gly | Ile | Ile | Leu | Phe | Ile | Thr | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ile | Phe | Phe | Phe | Ala | Gly | Phe | Phe |
| | | 35 | | | | | 40 | |

<210> 6698

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

5936

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (90)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6698

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | His | His | Ser | Leu | Ile | Xaa | Asn | Asn | Arg | Asn | Gln | Ile | Ile | Gln | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Leu | Leu | Ile | Thr | Ile | Leu | Leu | Gly | Leu | Tyr | Phe | Thr | Leu | Leu | Gln | Ala |
| | | | 20 | | | | | 25 | | | | | | 30 | |
| Ser | Xaa | Tyr | Phe | Glu | Ser | Pro | Phe | Thr | Ile | Ser | Asp | Gly | Ile | Tyr | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Ser | Thr | Phe | Phe | Val | Ala | Thr | Gly | Phe | His | Gly | Leu | His | Val | Ile | Ile |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Gly | Ser | Thr | Phe | Leu | Thr | Ile | Cys | Phe | Ile | Arg | Gln | Leu | Ile | Phe | His |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |
| Phe | Thr | Ser | Lys | His | His | Phe | Gly | Phe | Xaa | Thr | Ala | Ala | | | |
| | | | 85 | | | | | | 90 | | | | | | |

<210> 6699
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 6699

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Arg | Asp | Val | Thr | Arg | Glu | Ser | Thr | Tyr | Gln | Gly | His | His | Thr | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Pro | Val | Gln | Lys | Gly | Leu | Arg | Tyr | Gly | Ile | Ile | Leu | Phe | Ile | Thr | Ser |
| | | | 20 | | | | | 25 | | | | | | 30 | |
| Glu | Val | Phe | Phe | Phe | Ala | Gly | Phe | Phe | | | | | | | |
| | | 35 | | | | | 40 | | | | | | | | |

<210> 6700
 <211> 39
 <212> PRT

5937

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6700

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Ile | Leu | Xaa | Thr | Ala | Leu | Ser | Leu | Leu | Ile | Arg | Ala | Glu | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gln | Pro | Xaa | Asn | Leu | Leu | Xaa | Asn | Glu | His | Ile | Tyr | Asn | Val | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Val | Thr | Ala | Met | His | Leu | Leu |
| | | | 35 | | | |

<210> 6701

<211> 40

<212> PRT

<213> Homo sapiens

<400> 6701

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Leu | Pro | Ala | Ile | Ile | Leu | Val | Leu | Ile | Ala | Leu | Pro | Ser | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ile | Leu | Tyr | Ile | Thr | Asp | Glu | Val | Asn | Asp | Pro | Ser | Leu | Thr | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ser | Ile | Gly | His | Gln | Trp | Tyr |
| | | | 35 | | | | 40 |

<210> 6702

<211> 40

<212> PRT

<213> Homo sapiens

5938

<400> 6702

Thr Ile Leu Pro Ala Ile Ile Leu Val Leu Ile Ala Leu Pro Ser Leu
 1 5 10 15

Arg Ile Leu Tyr Ile Thr Asp Glu Val Asn Asp Pro Ser Leu Thr Ile
 20 25 30

Lys Ser Ile Gly His Gln Trp Tyr
 35 40

<210> 6703

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6703

Ala Val Pro Thr Leu Gly Leu Lys Thr Asp Ala Ile Pro Gly Arg Leu
 1 5 10 15

Asn Gln Thr Thr Phe Thr Ala Thr Arg Pro Gly Val Tyr Tyr Gly Gln
 20 25 30

Cys Ser Glu Ile Cys Gly Ala Asn His Ser Phe Met Pro Ile Val Leu
 35 40 45

Glu Leu Ile Pro Leu Lys Ile Phe Glu Ile Gly Xaa Val Phe Thr Leu
 50 55 60

<210> 6704

<211> 56

<212> PRT

<213> Homo sapiens

<400> 6704

Thr Tyr Glu Tyr Thr Asp Tyr Gly Gly Leu Ile Phe Asn Ser Tyr Ile
 1 5 10 15

Leu Pro Pro Leu Phe Leu Glu Pro Gly Asp Leu Arg Leu Leu Asp Val
 20 25 30

5939

Asp Asn Arg Val Val Leu Pro Ile Glu Ala Pro Ile Arg Ile Ile Ile
 35 40 45

Thr Ser Gln Asp Val Leu His Ser
 50 55

<210> 6705

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6705

His Val Thr Leu Trp Phe Leu Cys Phe Ile Asn Tyr Leu Ile Tyr Gln
 1 5 10 15

Tyr Gly Thr Arg Phe Xaa Lys Lys Xaa Asp Ser Xaa Asp Pro Tyr Ile
 20 25 30

Tyr Thr Pro Phe Gly Thr Gly Pro Lys Thr Ala Leu Ala
 35 40 45

<210> 6706

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

5940

<400> 6706

His Leu Trp Xaa Leu Ile Glu Gly Gly Ala His Ile Tyr Val Cys Gly
 1 5 10 15

Asp Ala Arg Asn Met Ala Arg Asp Val Gln Asn Thr Phe Tyr Asp Ile
 20 25 30

Val Ala Glu Leu Gly Ala Met Glu His Ala Gln Ala Val Asp Tyr Ile
 35 40 45

Lys Lys Leu Met Thr Lys Gly Arg Tyr Ser Leu Asp Val Trp Ser
 50 55 60

<210> 6707

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5941

<221> SITE
 <222> (125)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (129)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (138)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (140)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (154)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6707
 Xaa Pro Pro Glu Leu His Asp Xaa Ala Lys Xaa Pro Tyr Thr Glu Ala
 1 5 10 15
 Val Ile Tyr Glu Ile Gln Arg Phe Ser Asp Leu Leu Pro Met Gly Val
 20 25 30
 Pro His Ile Val Thr Gln His Thr Ser Phe Arg Gly Tyr Ile Ile Pro
 35 40 45
 Lys Asp Thr Glu Val Phe Leu Ile Leu Ser Thr Ala Leu His Asp Pro
 50 55 60
 His Tyr Phe Glu Lys Pro Asp Ala Phe Asn Pro Asp His Phe Leu Asp
 65 70 75 80
 Ala Asn Gly Ala Leu Lys Lys Thr Glu Ala Phe Ile Pro Phe Ser Leu
 85 90 95
 Gly Lys Arg Ile Cys Leu Gly Glu Gly Ile Ala Arg Ala Glu Xaa Xaa
 100 105 110

5942

Pro Leu Phe Thr Thr Ile Leu Gln Asn Phe Xaa Met Xaa Ser Pro Val
 115 120 125

Xaa Pro Glu Asp Ile Xaa Leu Thr Pro Xaa Glu Xaa Gly Val Gly Gln
 130 135 140

Lys Asn Pro Pro Thr Tyr Gln Asn Pro Xaa Ser Trp Pro Arg
 145 150 155

<210> 6708

<211> 89

<212> PRT

<213> Homo sapiens

<400> 6708

Phe Ser Ala Pro Ser Arg Ile Ser Ala Trp Phe Gly Pro Pro Ala Ser
 1 5 10 15

Thr Pro Ala Ser Thr Met Ser Ile Arg Val Thr Gln Lys Ser Tyr Lys
 20 25 30

Val Ser Thr Ser Gly Pro Arg Ala Phe Ser Ser Arg Ser Tyr Thr Ser
 35 40 45

Gly Pro Gly Ser Arg Ile Ser Ser Ser Ser Phe Ser Arg Val Gly Lys
 50 55 60

Gln Gln Leu Ser Arg Trp Pro Gly Arg Ala Ala Met Val Gly Pro Ala
 65 70 75 80

Ala Trp Glu Ala Ser Pro Glu Leu Arg
 85

<210> 6709

<211> 138

<212> PRT

<213> Homo sapiens

<400> 6709

Arg Ser Trp Gly Ala Thr Gln Pro Gly Ser Gln Ala Pro Pro Arg Gln
 1 5 10 15

Leu Ser Arg Phe Ser His Ser Phe Pro Thr Arg Leu Leu Ser Pro Met
 20 25 30

Ala His Ala Thr Leu Ser Ala Ala Pro Ser Asn Pro Arg Leu Leu Arg
 35 40 45

5943

Val Ala Leu Leu Leu Leu Leu Leu Val Ala Ala Ser Arg Arg Ala Ala
 50 55 60

Gly Ala Ser Val Val Thr Glu Leu Arg Cys Gln Cys Leu Gln Thr Leu
 65 70 75 80

Gln Gly Ile His Leu Lys Asn Ile Gln Ser Val Asn Val Arg Ser Pro
 85 90 95

Gly Pro His Cys Ala Gln Thr Glu Val Ile Ala Thr Leu Lys Asn Gly
 100 105 110

Lys Lys Ala Cys Leu Asn Pro Ala Ser Pro Met Val Gln Lys Ile Ile
 115 120 125

Glu Lys Ile Leu Asn Lys Gly Ser Thr Asn
 130 135

<210> 6710

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6710

Gly Thr Phe Arg Asn Asp Asn Ser Ala Glu Met Cys Arg Lys Cys Ser
 1 5 10 15

Thr Gly Cys Pro Arg Arg Met Val Lys Val Lys Asp Cys Thr Pro Trp
 20 25 30

Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Asn Gly His Asn Ile
 35 40 45

Trp Val Ile Phe Val Val Thr Leu Val Val Pro Leu Leu Xaa Val Ala
 50 55 60

Val Leu Ile Val Trp Cys Cys Ile Gly Ser Xaa Cys
 65 70 75

5944

<210> 6711

<211> 59

<212> PRT

<213> Homo sapiens

<400> 6711

Phe Ile Pro Ile Leu Val Ser Asn Tyr Asn Pro Lys Glu Phe Glu Ser
1 5 10 15

Cys Ile Gln Tyr Tyr Leu Glu Asn Asn Trp Leu Gln His Glu Lys Ala
20 25 30

Pro Thr Glu Glu Gly Lys Lys Glu Leu Leu Phe Leu Ser Asn Ala Asn
35 40 45

Pro Ser Leu Leu Glu Arg His Cys Ala Tyr Leu
50 55

<210> 6712

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

5945

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6712

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Arg | Pro | Arg | Ser | Gly | Xaa | Pro | Gly | Ser | Thr | His | Ala | Ser | Asp | Pro |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Xaa | Ile | Phe | Xaa | Lys | Pro | Ala | Lys | Thr | Ser | Lys | Xaa | Pro | Gly | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Xaa | Glu | Glu | Leu | Leu | Xaa | Xaa | Thr | Glu | Thr | Val | Val | Thr | Glu | Tyr |
| | | | 35 | | | | 40 | | | | | | 45 | | |

5946

Leu Asn Ser Gly Asn Ala Asn Glu Ala Val Asn Gly Val Arg Glu Met
 50 55 60

Arg Ala Pro Lys His Phe Leu Pro Glu Met Leu Ser Lys Val Ile Ile
 65 70 75 80

Leu Ser Leu Asp Xaa Xaa Xaa Glu Asp Lys Xaa Lys Ala Ser Ser Leu
 85 90 95

Ile Xaa Leu Leu Lys Gln Glu Gly
 100

<210> 6713

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6713

Ala Leu Phe Asn Xaa Gly Ser Pro Xaa Leu His Glu Phe Arg Ser Xaa
 1 . 5 10 15

Xaa Thr Leu Phe Ile Val Leu Val Asn Asn Asp Glu Gly Glu Trp Asn
 20 25 30

5947

Gly Pro Pro Pro Xaa Cys Lys Arg Lys Asn Leu
 35 40

<210> 6714

<211> 34

<212> PRT

<213> Homo sapiens

<400> 6714

Met Cys Ser Leu Pro Phe Gln Ile Lys Ile Thr His Lys Asn Gln Met
 1 5 10 15

Pro Met Leu Met Gly Pro Pro Pro Arg Ser Thr Asn Phe Phe Gly Phe
 20 25 30

Leu Ser

<210> 6715

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6715

Gly Gly Asp Gly Thr Val Gly Trp Val Leu Gly Ala Leu Glu Glu Thr
 1 5 10 15

5948

Arg Tyr Arg Leu Ala Cys Pro Glu Pro Ser Val Ala Ile Leu Pro Leu
20 25 30

Gly Thr Gly Asn Asp Leu Gly Arg Val Leu Arg Trp Gly Ala Gly Tyr
35 40 45

Ser Gly Glu Asp Pro Phe Ser Val Leu Leu Ser Val Asp Glu Ala Asp
50 55 60

Ala Val Leu Met Asp Arg Trp Thr Ile Leu Leu Asp Ala His Glu Ala
65 70 75 80

Gly Ser Ala Glu Asn Asp Thr Ala Xaa Ala Glu Pro Pro Lys Ile Val
85 90 95

Gln Met Ser Asn Tyr Leu Trp His Trp His Xaa Pro Gly Leu Xaa Leu
100 105 110

Asp Phe Thr Lys His Arg Xaa Glu Glu Pro
115 120

<210> 6716

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5949

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6716

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Met | Ala | Glu | Glu | Gly | Xaa | Pro | Ala | Pro | Leu | Pro | Pro | Glu | Asp | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asn | Ala | Ala | Ser | Leu | Ala | Pro | Thr | Pro | Xaa | Ser | Pro | Xaa | Leu | Glu |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Phe | Asn | Leu | Thr | Ser | Glu | Pro | Ser | Asp | Xaa | Ala | Leu | Asp | Leu | Ser |
| | | 35 | | | | | | 40 | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Phe | Leu | Gln | Gln | Xaa | Pro | Asp | Ala | Phe | Xaa | Xaa | Gly | Xaa | Pro | Glu |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Pro | Lys | Lys | Lys | Pro | Lys | Asn | Pro | Gln | Arg | Lys | His | Gln | Gly | Xaa |
| 65 | | | | | | 70 | | | | 75 | | | | | 80 |

Thr Arg Gly

<210> 6717

<211> 69

5950

<212> PRT

<213> Homo sapiens

<400> 6717

Gly Cys Thr Pro Leu Phe Ile Pro Lys Leu Ala Gly Ser His Cys Ser
1 5 10 15

Gly Ala Lys Gly Gly Lys Lys Ser Asp Gln Ser Asn Cys Ser Leu Glu
20 25 30

Pro Leu Leu Gln Gln Leu Ser Thr Ser Tyr Lys Thr Met Pro Asp Val
35 40 45

Cys Gln Ala Ser Asn Leu Leu Pro Ala Leu Arg Ser Leu Asn Cys Cys
50 55 60

Leu Pro Ser Ser Leu
65

<210> 6718

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

5951

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (75)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (76)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (106)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6718
 Gln Xaa Lys Asp Gly Asp Glu Phe Asn Asn Ser Ile Xaa Gln Leu Phe
 1 5 10 15
 Leu Ala Phe Asn Met Leu Met Asp Arg Pro Leu Glu Glu Ala Val Lys
 20 25 30
 Ile Xaa Gly Ala Xaa Leu Lys Tyr Leu Pro Ser Ile Ile Asn Asp Val
 35 40 45
 Lys Leu Val Phe Asp Pro Val Glu Leu Xaa Val Leu Phe Cys Lys Phe
 50 55 60
 Ile Xaa Ser Ile Pro Asp Asn Gln Xaa Val Xaa Xaa Lys Leu Asn Cys
 65 70 75 80

5952

Met Thr Lys Ile Val Glu Ser Thr Leu Phe Xaa Gln Ser Glu Cys Xaa
 85 90 95

Glu Val Leu Leu Pro Leu Leu Thr Asp Xaa
 100 105

<210> 6719

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6719

Val Ala Val Lys Met Ala Leu Val Ala Ser Val Arg Val Pro Ala Arg
 1 5 10 15

Val Leu Leu Arg Ala Gly Ala Arg Leu Pro Gly Ala Ala Leu Gly Arg
 20 25 30

Thr Glu Arg Ala Ala Gly Gly Gly Asp Gly Ala Arg Arg Phe Gly Ser
 35 40 45

Gln Arg Val Leu Val Glu Pro Asp Ala Gly Ala Gly Val Ala Val Met
 50 55 60

Lys Phe Lys Asn Pro Pro Val Asn Ser Leu Ser Leu Glu Phe Leu Thr
 65 70 75 80

Glu Leu Val Ile Ser Leu Arg Ser Trp Arg Met Thr Arg Ala Ser Ala
 85 90 95

Val Xaa Phe

<210> 6720

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

5953

<400> 6720

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Thr Pro Gln Gln Lys Tyr Gln Arg Leu Leu His Glu Val Gln Glu Leu
 1              5              10              15

Thr Thr Glu Val Glu Lys Ile Lys Thr Thr Val Lys Glu Ser Ala Thr
      20              25              30

Glu Glu Lys Leu Thr Pro Val Leu Leu Ala Lys Gln Leu Ala Ala Leu
      35              40              45

Lys Gln Gln Leu Val Ala Ser His Leu Glu Lys Leu Leu Gly Pro Asp
      50              55              60

Ala Ala Ile Asn Leu Thr Asp Pro Asp Gly Ala Leu Ala Lys Arg Leu
      65              70              75              80

Leu Leu Gln Leu Glu Ala Thr Lys Asn Ser Lys Gly Gly Ser Gly Gly
      85              90              95

Lys Thr Thr Gly Thr Pro Pro Asp Ser Ser Leu Val Thr Tyr Glu Leu
      100             105             110

His Ser Arg Pro Glu Gln Asp Lys Val Leu Ser Lys Leu Xaa Lys Val
      115             120             125

Gln Asn Leu Lys Ser Ala
      130

```

<210> 6721

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

5954

<400> 6721

Xaa Asn Lys Xaa Trp Cys Ser Thr Ala Val Ala Xaa Ala Leu Glu Leu
1 5 10 15
Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Lys Thr Ser Leu
20 25 30
Asn Leu Ser Leu Asn Leu Ile Phe Glu Leu Pro Ser Leu Phe Met Val
35 40 45
Glu Gly Lys Gln Phe Arg Ser Leu Asp Tyr Glu Phe Cys Glu Thr His
50 55 60
Asp Ser Thr Ile Thr
65

<210> 6722

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6722

Leu Leu Pro Ser Glu Ser Pro Met Ala His Trp Trp Trp Trp Thr Ala
1 5 10 15

5955

Cys Gln Ala Cys Asp Ser Ala Ala Ala Gly His Cys Arg Ala His Gln
20 25 30

Ala Cys Ala Asp Asp Glu Gln Asp Val Asn Val Ile Ile Ser Thr Tyr
35 40 45

Gly Glu Gly Glu Ser Gly Pro Met Gly Asn Ile Met Ile Asp Pro Val
50 55 60

Leu Gly Thr Val Gly Phe Gly Ser Gly Leu His Gly Trp Ala Phe Thr
65 70 75 80

Leu Lys Gln Phe Ala Glu Met Tyr Val Xaa Lys Phe Xaa Xaa Lys Gly
85 90 95

Glu Gly Xaa Leu Gly Pro Xaa Glu Arg Ala Lys Lys Val
100 105

<210> 6723

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

5956

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6723
 Lys Cys Thr Ile Thr Gly Leu Thr Xaa Trp Asp Pro Xaa Cys Glu Ala
 1 5 10 15
 Xaa Asp Arg Gly Asp Lys Phe Val Leu Arg Ser Xaa Tyr Ser Ser Cys
 20 25 30
 Gly Met Xaa Val Ser Xaa Ser Met Ile Ser Asn Glu Xaa Xaa Val Asn
 35 40 45
 Ile Leu
 50

<210> 6724
 <211> 106
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6724
 Ala Xaa Ala Trp Ala Pro Pro Pro Leu Ser Pro Trp Ser Ser Cys Lys
 1 5 10 15
 Ser Ala Arg Met Ser Gln Ala Glu Phe Glu Lys Ala Ala Glu Glu Val
 20 25 30
 Arg His Leu Lys Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr
 35 40 45
 Gly His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro

5957

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 50 | | | | | 55 | | | | | 60 | | | | | |
| Gly | Met | Leu | Asp | Phe | Thr | Gly | Lys | Ala | Lys | Trp | Asp | Ala | Trp | Asn | Glu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Leu | Lys | Gly | Thr | Ser | Lys | Glu | Asp | Ala | Met | Lys | Ala | Tyr | Ile | Asn | Lys |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Val | Glu | Glu | Leu | Lys | Lys | Lys | Tyr | Gly | Ile | | | | | | |
| | | | 100 | | | | | 105 | | | | | | | |

<210> 6725

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

 $\langle 222 \rangle \quad (103)$

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (104)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

 $\langle 222 \rangle \quad (110)$

5958

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6725

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Trp | Cys | Arg | Trp | Leu | Val | Ser | Ala | Thr | Cys | Val | Gly | Thr | Ala | Asp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Lys | Met | Ser | Ser | Gly | Asn | Ala | Lys | Ile | Gly | His | Pro | Ala | Pro | Asn |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Lys | Ala | Thr | Ala | Val | Met | Pro | Asp | Gly | Gln | Phe | Lys | Asp | Ile | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Asp | Tyr | Lys | Gly | Lys | Tyr | Val | Val | Phe | Phe | Phe | Tyr | Pro | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Phe | Thr | Phe | Val | Cys | Xaa | Thr | Glu | Ile | Ile | Ala | Phe | Ser | Asp | Arg |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Xaa | Glu | Phe | Lys | Lys | Leu | Asn | Cys | Gln | Val | Ile | Gly | Ala | Ser | Val |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ser | His | Phe | Cys | His | Xaa | Xaa | Trp | Val | Asn | Thr | Pro | Xaa | Lys | Gln |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Leu | Gly | Pro | Met | Asn | Ile |
| | 115 | | | | | 120 | |

<210> 6726

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5959

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6726

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ser | Xaa | Ala | Pro | Ala | Val | Pro | Val | Arg | Asn | Ser | Arg | Val | Asp | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Val | Arg | Thr | Xaa | Xaa | Val | Val | Asn | Cys | Phe | Val | Asn | Asn | Asn | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Cys | Gln | Cys | Thr | Ser | Val | Gly | Ala | Gln | Asn | Thr | Val | Ile | Cys | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Ala | Ala | Lys | Cys | Leu | Val | Met | Lys | Ala | Glu | Met | Asn | Gly | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Gly | Arg | Arg | Ala | Lys | Pro | Glu | Gly | Ala | Leu | Gln | Asn | Asn | Asp |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Tyr | Asp | Pro | Asp | Cys | Asp | Glu | Ser | Gly | Leu | Phe | Lys | Ala | Lys |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Cys | Asn | Gly | Thr | Ser | Met | Cys | Trp | Cys | Val | Asn | Thr | Ala | Gly | Val |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Thr | Asp | Lys | Asp | Thr | Glu | Ile | Thr | Cys | Ser | Glu | Arg | Val | Arg |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Tyr | Trp | Ile | Ile | Ile | Glu | Leu | Lys | His | Lys | Ala | Arg | Glu | Lys | Pro |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Asp | Ser | Lys | Ser | Leu | Arg | Thr | Ala | Leu | Gln | Lys | Glu | Ile | Thr | Thr |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Tyr | Gln | Leu | Asp | Pro | Lys | Phe | Ile | Thr | Ser | Ile | Leu | Tyr | Glu | Asn |
| | | | | 165 | | | | | 170 | | | | | 175 | |

5960

Asn Val Ile Thr Ile Asp Leu Val Gln Asn Ser Ser Xaa Lys Asn Ser
 180 185 190

Glu

<210> 6727

<211> 153

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6727

His Val Val Glu Gly Thr Pro Ala Gly Thr Gly Ser Gly Ile Pro Gly
 1 5 10 15

Tyr Leu Ile Tyr Leu Lys Phe Lys Ala Thr Tyr Asp Gly Asn His Asp
 20 25 30

Thr Phe Arg Val Glu Phe Leu Val Val Pro Val Gly Gly Leu Ser Phe
 35 40 45

Leu Val Asn His Asp Phe Ser Pro Leu Glu Ile Leu Trp Thr Phe Ser
 50 55 60

Ile Tyr Leu Glu Ser Val Ala Ile Leu Pro Gln Leu Phe Met Ile Ser
 65 70 75 80

Lys Thr Gly Glu Ala Glu Thr Ile Thr Thr His Tyr Leu Phe Phe Leu
 85 90 95

Gly Leu Tyr Arg Ala Leu Tyr Leu Val Asn Trp Xaa Trp Arg Phe Tyr
 100 105 110

Phe Glu Gly Phe Phe Asp Leu Ile Ala Val Val Ala Gly Val Val Gln
 115 120 125

Thr Ile Leu Tyr Cys Asp Phe Phe Tyr Leu Tyr Ile Gln Lys Tyr Ser
 130 135 140

5961

Arg Glu Arg Ser Ser Val Xaa Gln His
145 150

<210> 6728
<211> 135
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

5962

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6728
Pro Ser Cys Gly Ala Gly His Thr Ala Gly Gly Gly Arg Gly Arg Xaa
1 5 10 15

Pro Xaa Ser Trp Pro Pro Pro Val Glu Xaa Val Thr Leu Xaa Asp Leu
20 25 30

5963

Ser Gln Leu Ile Ile Arg Asn Cys Xaa Ser Phe Asp Ile His Xaa Ile
 35 40 45
 His Val Cys Leu His Leu Xaa Val Leu Leu Gly Phe Pro Ser Asp Gly
 50 55 60
 Pro Leu Val Cys Ala Leu Xaa Xaa Glu Xaa Xaa Leu Arg Leu Pro Pro
 65 70 75 80
 Lys Ala Xaa Ser Pro Phe Ala Thr Pro Ser Pro Lys Ser Asn Gly Xaa
 85 90 95
 Arg Thr Xaa Ser Pro Arg Asp Gly Ala Pro Trp Pro Ile Thr Gly Pro
 100 105 110
 Gly Pro Val Xaa Gly Thr Pro Xaa Phe Xaa Glu Asn Pro Cys Pro Leu
 115 120 125
 Pro Gly Trp Phe Gln Glu Thr
 130 135

<210> 6729

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5964

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6729

Thr Gln Pro Thr Val Cys Thr Asp Ala Pro Ser Leu Leu Pro Leu Ser
 1 5 10 15

Arg Leu His Leu Arg Gly Ser Trp Asp Arg Arg Ser Val Ala Asn Met
 20 25 30

Gln Leu Phe Val Arg Ala Gln Glu Leu His Thr Phe Glu Val Thr Gly
 35 40 45

Gln Glu Thr Val Ala Gln Ile Lys Ala His Val Ala Ser Leu Glu Gly
 50 55 60

Ile Ala Pro Glu Asp Gln Val Val Leu Leu Ala Gly Ala Pro Leu Glu
 65 70 75 80

Asp Glu Ala Thr Leu Gly Gln Cys Gly Val Glu Ala Leu Thr Thr Leu
 85 90 95

Glu Val Ala Gly Arg Met Leu Gly Gly Lys Val His Gly Ser Leu Ala
 100 105 110

Arg Ala Gly Lys Val Arg Gly Gln Thr Pro Lys Val Ala Lys Gln Glu
 115 120 125

Lys Lys Lys Lys Lys Thr Gly Arg Ala Lys Arg Arg Met Gln Xaa Asn
 130 135 140

Arg Xaa Phe Val Xaa Xaa Xaa Pro Pro Leu Ala Arg Arg
 145 150 155

<210> 6730

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

5965

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6730

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Xaa | Asp | Gln | Ile | Thr | Ala | Val | Arg | Lys | Phe | Ile | Xaa | Met | Gly | Phe |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asp | Glu | Lys | Arg | Ile | Ala | Ile | Trp | Gly | Trp | Ser | Tyr | Gly | Gly | Tyr |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Ser | Leu | Ala | Leu | Ala | Ser | Gly | Thr | Gly | Leu | Phe | Lys | Cys | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Val | Ala | Pro | Val | Ser | Ser | Trp | Glu | Tyr | Tyr | Ala | Ser | Val | Tyr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Glu | Arg | Phe | Met | Gly | Xaa | Pro | Xaa | Lys | Asp | Asp | Asn | Leu | Glu | His |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Lys | Asn | Ser | Thr | Val | Met | Ala | Arg | Ala | Glu | Tyr | Phe | Arg | Asn | Val |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Tyr | Leu | Leu | Ile | His | Gly | Thr | Ala | Asp | Asp | Asn | Val | His | Phe | Gln |
| | | 100 | | | | | | 105 | | | | 110 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ala | Gln | Ile | Ala | Lys | Ala | Leu | Val | Asn | Ala | Gln | Val | Asp | Xaa |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ala | Met | Trp | Tyr | Ser | Asp | Gln | Asn | His | Gly | Leu | Ser | Gly | Leu | Ser |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Asn | His | Leu | Tyr | Thr | His | Met | Thr | His | Phe | Leu | Lys | Gln | Cys | Phe |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

5966

Ser Leu Ser Asp

<210> 6731

<211> 26

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6731

Gly Xaa Gly Arg Xaa Gln Cys Xaa Asn Thr Leu Gln Thr Asn Ala Gly

1

5

10

15

Tyr Leu Glu Gln Val Lys Arg Xaa Xaa Xaa

20

25

<210> 6732

<211> 61

5967

<212> PRT

<213> Homo sapiens

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

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<220>

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<222> (23)

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<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6732

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ala | Ile | Ala | Ser | Xaa | Arg | Tyr | Lys | Arg | Phe | Xaa | Ile | Arg | Xaa | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Lys | Met | Gln | Xaa | Asp | Xaa | Val | Arg | Ser | Val | Ile | Gln | Asn | Leu | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Glu | Gln | Ser | Met | Val | Leu | Cys | Ala | Ala | Xaa | Xaa | Lys | Ala | Gly | Ser |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

5968

35 40 45
Met Xaa Leu His Gln Asp Asn Ser His Thr Pro Val Ser
50 55 60

<210> 6733
<211> 38
<212> PRT
<213> Homo sapiens

<400> 6733
Ala Phe Ile Ala Lys Ser Phe Tyr Asp Leu Ser Ala Ile Ser Leu Asp
1 5 10 15
Gly Glu Lys Val Asp Phe Asn Thr Ser Arg Gly Arg Ala Val Leu Ile
20 25 30
Glu Asn Val Ala Ser Leu
35

<210> 6734
<211> 95
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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<222> (48)
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<220>
<221> SITE

5969

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6734

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asp | Glu | Pro | Ile | Pro | Xaa | Lys | Glu | Leu | Glu | Arg | Gly | Val | Ala | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | His | Gly | Leu | Leu | Cys | Leu | Leu | Ser | Asp | His | Val | Asp | Lys | Arg | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asp | Ala | Ala | Xaa | Ala | Asn | Leu | Lys | Val | Ile | Ser | Thr | Met | Xaa | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Asp | His | Leu | Ala | Leu | Asp | Glu | Ile | Lys | Lys | Arg | Gly | Ile | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gly | Tyr | Thr | Pro | Asp | Val | Leu | Thr | Asp | Thr | Thr | Val | Glu | Leu | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Val | Xaa | Leu | Leu | Leu | Thr | Thr | Xaa | Arg | Arg | Leu | Xaa | Glu | Ala | Ile | |
| | | | | 85 | | | | | 90 | | | | | 95 | |

<210> 6735

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5970

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6735

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Cys | Leu | Ala | Asp | Leu | Ala | Asp | Arg | Xaa | Tyr | Lys | Gln | Ala | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Cys | Leu | Leu | Xaa | Xaa | Ser | Phe | Asp | His | Cys | Asp | Phe | Pro | Glu | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

<210> 6736

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5971

<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (65)
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<222> (67)
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<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (88)
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<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5972

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6736

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Pro | Trp | Pro | Leu | Lys | Leu | Arg | Cys | Gln | Cys | Leu | Gln | Thr | Leu | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ile | His | Pro | Lys | Asn | Ile | Gln | Ser | Val | Asn | Xaa | Lys | Ser | Pro | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | His | Cys | Ala | Gln | Thr | Glu | Val | Ile | Ala | Thr | Leu | Lys | Asn | Gly | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Xaa | Xaa | Leu | Gln | Ser | Cys | Met | Pro | His | Xaa | Leu | Xaa | Xaa | Leu | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Lys | Xaa | Val | Xaa | Gln | Trp | Gln | Ile | Gln | Leu | Xaa | Gln | Lys | Gly | Gly |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Lys | Val | Xaa | Trp | Trp | Val | Xaa | Ala | Xaa | Arg | Glu | Xaa | Leu | Xaa | Leu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

Phe

<210> 6737

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

5973

<400> 6737

Ser Pro Gly Pro His Xaa Ala Gln Thr Gly Val Ile Ala Thr Leu Lys
 1 5 10 15

Xaa Gly Arg Lys Ala Cys Leu Asn Pro Ala Xaa Pro Ile Val Met Lys
 20 25 30

Xaa Ile

<210> 6738

<211> 18

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6738

Arg Xaa Val Ala Glu Asp Xaa His Leu Trp Asn Asp Ser Gln Pro Leu
 1 5 10 15

Lys Leu

<210> 6739

<211> 66

<212> PRT

<213> Homo sapiens

<400> 6739

Arg Gly Cys His Ser Asp Phe Leu Pro Glu Leu Leu Leu Ala Pro Ser
 1 5 10 15

Ser Lys Lys Gly Lys Ala Arg Leu Ser Pro Arg Ser Val Gly Val Ile
 20 25 30

Ser Pro Tyr Arg Lys Gln Val Glu Lys Ile Arg Tyr Cys Ile Thr Lys
 35 40 45

5974

Leu Asp Arg Glu Leu Arg Gly Leu Asp Asp Ile Lys Asp Leu Lys Val
 50 55 60

Val Gln
 65

<210> 6740

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6740

Arg His Glu Glu Phe Ala Arg Tyr Thr Thr Pro Glu Asp Ala Thr Pro
 1 5 10 15

Glu Pro Gly Glu Asp Pro Arg Val Thr Arg Ala Lys Tyr Phe Ile Arg
 20 25 30

Asp Glu Phe Leu Arg Ile Ser Thr Ala Ser Gly Asp Gly Arg His Tyr
 35 40 45

Cys Tyr Pro His Phe Thr Cys Ala Val Asp Thr Glu Asn Ile Arg Arg
 50 55 60

Val Phe Asn Asp Cys Arg Asp Ile Ile Gln Arg Met His Leu Arg Gln
 65 70 75 80

Tyr Glu Leu Leu Xaa Glu Gly Asn Pro Gln Ile
 85 90

<210> 6741

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5975

<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6741
Asp Leu Tyr Lys Lys Xaa Gly Lys Leu Glu Phe Leu Gly Leu Asp Asn
1 5 10 15

Ala Gly Gln Asn Xaa Xaa Xaa
20

<210> 6742
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)

5976

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6742

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gln | Gln | Gly | Ala | Pro | Cys | Pro | Ser | Arg | Cys | Gly | Glu | Xaa | Pro | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| | | | | | | | | | | | | | | | |
| Cys | His | Trp | Leu | Pro | Pro | Asp | Leu | Thr | Glu | Pro | Pro | Xaa | Ala | Gln | Leu |
| | | | 20 | | | | | 25 | | | | | | 30 | |
| | | | | | | | | | | | | | | | |
| Xaa | Xaa | Xaa | Phe | | | | | | | | | | | | |
| | | | 35 | | | | | | | | | | | | |

<210> 6743

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6743

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Arg | Pro | Asp | Lys | Xaa | Val | Lys | Asp | Leu | Val | Ile | Leu | Leu | Tyr | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| | | | | | | | | | | | | | | | |
| Thr | Ala | Leu | Leu | Ser | Ser | Gly | Phe | Ser | Leu | Glu | Asp | Xaa | Gln | Thr | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| | | | | | | | | | | | | | | | |
| Ala | Asn | Arg | Ile | Tyr | Arg | Met | Ile | Lys | Leu | Gly | Leu | Gly | Ile | Asp | Glu |
| | | | 35 | | | | 40 | | | | | 45 | | | |
| | | | | | | | | | | | | | | | |
| Asp | Asp | Pro | Thr | Ala | Asp | Asp | Thr | Ser | Ala | Ala | Val | Thr | Glu | Glu | Met |
| | | | 50 | | | | 55 | | | | 60 | | | | |

5977

Pro Pro Leu Glu Gly Asp Asp Xaa Thr Ser Arg Met Glu Xaa Val Asp
 65 70 75 80

<210> 6744
 <211> 83
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (82)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6744
 Gly Xaa Ala Ser Pro Leu Gly Pro Ala Ala Leu Arg Asp Ser Glu Glu
 1 5 10 15

Lys Leu Ala Pro Gly Gly Arg Gly Ser Val Asn Met Gly Lys Gly Asp
 20 25 30

Pro Asn Lys Pro Arg Gly Lys Met Ser Ser Tyr Ala Phe Phe Val Gln
 35 40 45

Thr Cys Arg Glu Arg Ala Gln Glu Arg Asn Thr Arg Thr Leu Pro Ser
 50 55 60

5978

Ile Ser Xaa Glu Phe Ser Xaa Xaa Phe Phe Gly Lys Met Glu Lys Pro
65 70 75 80

Phe Xaa Pro

<210> 6745

<211> 150

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5979

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6745

Leu Val Ala Ala Leu Ala Pro Met Ser Leu Pro Asn Ser Ser Cys Leu
 1 5 10 15

Leu Glu Asp Lys Met Cys Glu Gly Asn Lys Thr Thr Met Ala Ser Pro
 20 25 30

Gln Leu Met Pro Leu Val Val Val Leu Ser Thr Ile Cys Leu Val Thr
 35 40 45

Val Gly Leu Asn Leu Leu Val Leu Tyr Ala Val Arg Ser Glu Arg Lys
 50 55 60

Leu His Thr Val Gly Asn Leu Tyr Ile Val Ser Xaa Ser Val Ala Asp
 65 70 75 80

Leu Ile Val Gly Ala Val Val Met Pro Met Asn Ile Leu Tyr Leu Leu
 85 90 95

Met Ser Lys Trp Xaa Xaa Gly Arg Pro Xaa Cys Leu Phe Trp Xaa Ser
 100 105 110

Met Asp Tyr Val Ala Ser Thr Ala Ser Ile Phe Xaa Val Phe Ile Leu
 115 120 125

Cys Ile Asp Arg Tyr Arg Ser Val His Asn Pro Ser Gly Thr Leu Xaa
 130 135 140

Xaa Val Pro Lys Pro Glu
 145 150

<210> 6746

<211> 30

<212> PRT

<213> Homo sapiens

<400> 6746

Val Leu Glu Leu Ala Gly Asn Ala Ser Lys Asp Leu Lys Val Lys Arg
 1 5 10 15

Ile Thr Pro Arg His Leu Gln Leu Ala Ile Arg Gly Asp Glu
 20 25 30

<210> 6747

5980

<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6747

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Cys | Arg | Glu | Glu | His | Lys | Lys | Lys | His | Pro | Asp | Ala | Ser | Val | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ser | Glu | Phe | Ser | Lys | Lys | Cys | Ser | Glu | Arg | Trp | Lys | Thr | Met | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Lys | Glu | Lys | Gly | Lys | Phe | Glu | Asp | Met | Ala | Lys | Ala | Asp | Lys | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Tyr | Glu | Arg | Glu | Met | Lys | Thr | Tyr | Ile | Pro | Pro | Lys | Gly | Glu | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Lys | Phe | Lys | Asp | Pro | Asn | Ala | Pro | Lys | Arg | Pro | Pro | Ser | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Phe | Leu | Phe | Cys | Ser | Glu | Tyr | Arg | Pro | Lys | Ile | Lys | Gly | Glu | His |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Leu | Ser | Ile | Gly | Asp | Val | Ala | Lys | Lys | Leu | Gly | Glu | Met | Trp |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Asn | Thr | Ala | Ala | Xaa | Asp | Lys | Xaa | Leu | Xaa | Lys | Lys | Xaa | Ala | Ala |
| | | 115 | | | | | 120 | | | | | 125 | | | |

5981

<210> 6748

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6748

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Arg | Xaa | Glu | Leu | Ile | Arg | Pro | Glu | Arg | Asn | Thr | Leu | Val | Val |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Phe | Val | Asp | Leu | Glu | Gln | Phe | Asn | Gln | Gln | Leu | Ser | Thr | Thr | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Glu | Glu | Phe | Tyr | Arg | Val | Tyr | Pro | Tyr | Leu | Cys | Arg | Ala | Leu | Lys |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Phe | Val | Lys | Asp | Ser | Gly | Arg | Arg | Thr | Tyr | Lys |
| | | | 50 | | | | 55 | | | | 60 |

<210> 6749

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

5982

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6749

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Asn | Arg | Xaa | Ser | Ser | Cys | Ser | Ser | Cys | Xaa | Met | Pro | Cys | Ser |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Xaa | Glu | Arg | Gln | Xaa | Ser | Ser | Gln | Pro | Ala | Leu | Ser | Leu | Ala | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Xaa | Xaa | Arg | Gly | Trp | Tyr | Ile | Ser | Ala | Ser | Ala | Xaa | Gly | Asp |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Gly | Gly | Trp | Leu | Asn | Ala | Arg | Met | Leu | Gln | Xaa | Cys | Ser | Val | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Ser | Leu | Asn | Gln | Val | Met | Val | Asp | Asp | Ala | Gly | Val | Pro | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gly | Ser | Tyr | Ile | Gly | Val | Met | Val | Leu | Leu | Tyr | Lys | Pro | Gly | Leu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

5983

Thr Asp Glu Pro Glu Ala Val Gly Glu
 100 105

<210> 6750

<211> 121

<212> PRT

<213> Homo sapiens

<400> 6750

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr
 1 5 10 15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Arg Tyr Asn Gln
 20 25 30

Glu Thr Pro Met Glu Ile Cys Leu Asn Gly Thr Pro Ala Leu Ala Tyr
 35 40 45

Leu Ala Ser Ala Pro Pro Pro Leu Cys Pro Ser Gly Arg Thr Pro Asp
 50 55 60

Leu Lys Ala Leu Leu Asn Val Val Asp Asn Ala Arg Ser Phe Ile Tyr
 65 70 75 80

Val Ala Val Met Asn Tyr Leu Pro Thr Leu Glu Phe Ser His Leu Arg
 85 90 95

Ala Trp Arg Gln Gly Ala Pro Ala His Gln Leu Leu Gly Thr Leu Gly
 100 105 110

Gly His Pro Cys Gly Pro Ser Cys Ser
 115 120

<210> 6751

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

5984

<400> 6751

Phe Ser Leu Phe Pro Leu Ala Lys Ser Phe Asp Asp Gly Asp Tyr Phe
 1 5 10 15
 Pro Val Trp Gly Thr Cys Leu Gly Phe Glu Glu Leu Leu Met Leu Xaa
 20 25 30
 Ser Gly Glu Cys Leu Leu Thr Ala Thr Gly Xaa Cys Leu Thr Trp Gln
 35 40 45
 Cys Arg
 50

<210> 6752

<211> 165

<212> PRT

<213> Homo sapiens

<400> 6752

Gly Ala Gly Gly Gly Phe Gly Ser Pro Met Asp Ile Phe Asp Met Phe
 1 5 10 15
 Phe Gly Gly Gly Gly Arg Met Gln Arg Glu Arg Arg Gly Lys Asn Val
 20 25 30
 Val His Gln Leu Ser Val Thr Leu Glu Asp Leu Tyr Asn Gly Ala Thr
 35 40 45
 Arg Lys Leu Ala Leu Gln Lys Asn Val Ile Cys Asp Lys Cys Glu Gly
 50 55 60
 Arg Gly Gly Lys Lys Gly Ala Val Glu Cys Cys Pro Asn Cys Arg Gly
 65 70 75 80
 Thr Gly Met Gln Ile Arg Ile His Gln Ile Gly Pro Gly Met Val Gln
 85 90 95
 Gln Ile Gln Ser Val Cys Met Glu Cys Gln Gly His Gly Glu Arg Ile
 100 105 110
 Ser Pro Lys Asp Arg Cys Lys Ser Cys Asn Gly Arg Lys Ile Val Arg
 115 120 125
 Glu Lys Lys Ile Leu Glu Val His Ile Asp Lys Gly Met Lys Asp Gly
 130 135 140
 Gln Lys Ile Thr Phe His Gly Glu Gly Asp Gln Glu Pro Gly Leu Glu
 145 150 155 160

5985

Pro Gly Asp Ile Ile
165

<210> 6753

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

5986

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6753

Xaa Pro Thr Xaa Pro Leu Ser His Met Asn Ile Xaa Gln Xaa Phe Glu
1 5 10 15

Phe His Arg Met Ile Trp Ala Asp Leu Ser Cys Leu Val Tyr Arg Ala
20 25 30

Asp Thr Gln Xaa Tyr Gln Pro Leu Xaa Thr Lys Xaa Gly Xaa Lys Glu
35 40 45

Lys Phe Tyr Val Leu Leu Arg Gly Xaa
50 55

<210> 6754

<211> 28

<212> PRT

<213> Homo sapiens

<400> 6754

Pro Cys Lys Gly Ser Ile Ile Thr Cys Ser Leu Ser Arg Asp Leu Tyr
1 5 10 15

Glu Trp Leu His Glu Gly Ser Ala Val Ser Tyr Phe
20 25

<210> 6755

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6755

Asn Ser Gly Arg Gly Asp Leu Leu Tyr Gly Cys Tyr Thr Arg Pro Gln

5987

1 5 10 15
 Ile Asn Thr Glu Ile Val Gln Asn Val Thr Gly Pro Gly Gln Arg Thr
 20 25 30
 Asn Met Gly Ile Leu Phe Met Ser Lys Val Gly Leu Arg Gly Asp Arg
 35 40 45
 Arg Ser Glu Gly Asp Glu Val Leu Asp Pro Leu Arg Gln Ala Leu Asp
 50 55 60
 Ser Ser Met Gln Ser His Asn Leu Tyr Gln His Pro Gln Arg Leu Ala
 65 70 75 80
 Phe His Val Ser Ala Pro Val Ala Ser Thr Val Gln Gln Ala Ser Gly
 85 90 95
 Leu Leu Gly Pro Leu Pro His Leu Ser Ser Phe Ala Leu Gln Pro Ala
 100 105 110
 His Ser Leu Leu Pro Pro Leu Gly Ser His Gly Ala Xaa Xaa Ser
 115 120 125

<210> 6756

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6756

Ser Phe Ala Ser Leu Gln Asn Val Gly Tyr Leu Ala Gly Asp Ala Lys
 1 5 10 15
 Ile Leu Asn Asn Ile Asn Phe Ser Leu Arg Ala Gly Glu Phe Lys Leu
 20 25 30
 Ile Thr Gly Pro Ser Gly Cys Gly Lys Ser Thr Leu Leu Lys Ile Val
 35 40 45
 Ala Ser Leu Ile Ser Pro Thr Ser Gly Thr Xaa Thr Val
 50 55 60

<210> 6757

5988

<211> 57
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (53)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (57)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6757
 Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Ser Phe Ala Xaa Met
 1 5 10 15

Glu Val Leu Xaa Trp Thr His Xaa Lys Glu Gln Leu Glu Thr Leu Arg
 20 25 30

5989

Lys Leu Xaa Arg Arg Glu Val Ala Xaa Gln Trp Leu Arg Pro Ala Glu
 35 40 45

Xaa Asp His Leu Xaa Asp Ser Leu Xaa
 50 55

<210> 6758

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6758

Xaa Cys Phe Thr Phe Xaa Gly Ile Phe Xaa Ala Ile Ile Leu Phe Pro
 1 5 10 15

Phe Gly Phe Ile Cys Cys Phe Ala Leu Arg Lys Arg Arg Cys Pro Asn
 20 25 30

Cys Gly Xaa Thr Phe Ala
 35

<210> 6759

<211> 43

<212> PRT

<213> Homo sapiens

<220>

5990

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6759

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Phe | Xaa | Gly | His | Ser | Thr | Val | Xaa | Lys | Arg | Cys | Asp | Trp | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | His | Asn | Ser | Leu | Tyr | Gly | Ser | Val | Ala | Asp | Asp | Gln | Asn | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Tyr | Gly | Thr | Gln | Xaa | Pro | Ile | Gln | Leu | Gln |
| | | 35 | | | | | 40 | | | |

<210> 6760

<211> 87

<212> PRT

<213> Homo sapiens

<400> 6760

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Phe | Ala | Gly | Thr | Gly | Pro | Glu | Phe | Pro | Gly | Arg | Pro | Thr | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Glu | Asp | Ala | Glu | Asp | Arg | Pro | Pro | Glu | Leu | Leu | Phe | Ile | His | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | His | Thr | Ala | Lys | Ile | Ser | Asp | Phe | Ser | Trp | Asn | Pro | Asn | Glu | Pro |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Val | Ile | Cys | Ser | Val | Ser | Glu | Asp | Asn | Ile | Met | Gln | Ile | Trp | Gln |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Glu | Asn | Ile | Tyr | Asn | Asp | Glu | Glu | Ser | Asp | Val | Thr | Thr | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

5991

Glu Leu Glu Gly Gln Gly Ser
85

<210> 6761

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

5992

<220>
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 <222> (107)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (124)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (146)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (149)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6761
 Gly Asn Xaa Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg
 1 5 10 15
 Pro Thr Arg Pro Pro Ser Trp Asp Leu Arg Ala Ser Phe Ser Xaa Leu
 20 25 30
 Leu Gln Asp Gly Val Asn Arg His Pro Arg Pro Pro Gly Xaa Ser
 35 40 45
 Pro Arg Ser Leu Cys Arg Xaa Ala Xaa Gly Ala Val Arg Ser Arg Gly
 50 55 60
 Glu Lys Ala Arg Xaa Val Ser Glu Asp Leu Cys Lys Val Ser Gly Tyr
 65 70 75 80
 Ser Phe Thr Ser Tyr Trp Ile Lys Trp Val Arg Gln Met Pro Xaa Lys
 85 90 95
 Gly Leu Glu Xaa Met Ala Arg Ile Asp Pro Xaa Asp Ser Tyr Thr Asn
 100 105 110
 Tyr Ser Pro Ser Phe Gln Gly His Val Thr Ile Xaa Ala Asp Lys Xaa
 115 120 125
 Ile Ser Thr Ala Thr Cys Ser Gly Ala Ala Glu Gly Leu Gly His Arg

5993

130 135 140
 His Xaa Leu Leu Xaa Gln Thr
 145 150

<210> 6762
 <211> 80
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (76)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (80)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6762
 Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Xaa
 1 5 10 15
 Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
 20 25 30
 Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
 35 40 45
 Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
 50 55 60
 Val Tyr Ala Cys Xaa Val Thr His Gln Gly Leu Xaa Ser Pro Val Xaa
 65 70 75 80

5994

<210> 6763
 <211> 131
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (107)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (109)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (121)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (126)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6763
 Leu Leu Thr Met Arg Leu Pro Ala Gln Leu Leu Gly Leu Leu Met Leu
 1 5 10 15
 Trp Val Ser Gly Ser Ser Gly Asn Ile Val Met Thr Gln Ser Pro Val
 20 25 30
 Ser Leu Tyr Val Thr Pro Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser
 35 40 45
 Ser Gln Thr Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr
 50 55 60
 Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser
 65 70 75 80
 Asn Arg Ala Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly
 85 90 95

5995

Thr Asp Phe Thr Leu Lys Ile Thr Arg Val Xaa Ala Xaa Asp Val Gly
 100 105 110

Gly Tyr Tyr Tyr Trp Met Gln Ala Xaa Gln Ile His Ser Xaa Xaa Ala
 115 120 125

Leu Asp Gln
 130

<210> 6764

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6764

Ser Thr Met Ala Trp Ala Pro Leu Leu Leu Thr Leu Leu Ala His Cys
 1 5 10 15

Thr Gly Ser Trp Ala Ile Phe Met Leu Thr Gln Pro His Ser Val Ser
 20 25 30

Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Thr Arg Ser Xaa Gly
 35 40 45

Lys His Cys Gln Gln Leu Cys Ala Val Val Pro Ala Ala Pro Gly Xaa
 50 55 60

Val Pro Pro Pro Leu
 65

<210> 6765

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5996

<222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (53)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6765
 Gly Xaa Ala Arg Gly Asn His Gly Asn Pro Ser Xaa Xaa Leu Phe Leu
 1 5 10 15

 Leu Leu Leu Trp Leu Pro Asp Thr Thr Gly Glu Asn Xaa Leu Thr His
 20 25 30

 Phe Pro Gly Thr Leu Xaa Phe Phe Pro Gly Glu Xaa Ala Thr Leu Ser

5997

35 40 45
 Cys Trp Ala Ser Xaa Ser Val Tyr Ser Ser Tyr Leu Ala Trp Tyr Gln
 50 55 60
 Gln Lys Pro Gly Gln Xaa Pro Arg Xaa Leu Ile Tyr Gly Ala Ser Ser
 65 70 75 80
 Arg

<210> 6766
 <211> 44
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6766
 Arg Xaa Asp Asp Pro Ser His Ser Ser Ala Ala Ser Val Gly Asp Arg
 1 5 10 15

Val Thr Ile Thr Cys Pro Gly Xaa Ser Glu His Xaa Gln Arg Cys Lys
 20 25 30

Leu Asp Gln Gln Thr Ile Trp Lys Ala Leu Xaa Ser
 35 40

<210> 6767

5998

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6767

Gln Ser Ser Thr Leu Gly Asn Val Ser Thr Met Ala Trp Ala Leu Leu

1

5

10

15

Leu Leu Ser Leu Leu Thr Gln Gly Thr Gly Ser Trp Ala Gln Ser Ala

20

25

30

Leu Thr Gln Pro Arg Ser Val Ser Gly Ser Pro Gly Gln Xaa Val Thr

35

40

45

Ile Ser Cys Thr Gly Asn Gln Gln

50

55

<210> 6768

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6768

Ile Arg Gln Ser Arg Arg Gln Arg Ser Arg Val Val Ser Thr Met Ala

1

5

10

15

Trp Xaa Leu Leu Phe Leu Thr Leu Leu Thr Gln Gly Thr Gly Ser Trp

20

25

30

Ala Gln Ser Ala Leu Thr Gln Xaa Ala Ser Val Ser Gly Ser Pro Gly

35

40

45

Thr Val Asp His His Leu Leu His Trp Glu Gln Val Val Thr Leu Val

50

55

60

5999

Ala Ile Asn Tyr Val Phe Trp Tyr His Gln
 65 70

<210> 6769

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6769

Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro
 1 5 10 15

Thr Arg Pro Leu Phe Val Val Ala Ala Ala Thr Gly Val Leu Ser Xaa
 20 25 30

Leu Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser Ser
 35 40 45

Val Asn Ile Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Arg Tyr Ala
 50 55 60

Val Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val Gly
 65 70 75 80

6000

Gly Ile Thr Pro Val Tyr Gly Thr Thr His Tyr Ala Asp Asn Leu Arg
 85 90 95

Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Asn Ile Ala Tyr Met
 100 105 110

Glu Leu Lys Ser Leu Lys Phe Glu Asp Thr Ala Met Tyr Phe Cys Ala
 115 120 125 .

Arg Val His Asn Ser Tyr Asp Ser Ser Ala Leu Asn Trp Xaa Asp Pro
 130 135 140

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Xaa Xaa Thr Lys Gly
 145 150 155 160

Pro Ser Val Xaa Pro Leu Ala Pro Phe
 165

<210> 6770

<211> 82

<212> PRT

<213> Homo sapiens

<400> 6770

Asp Ser Ser Thr Ser Tyr Ser Ala Ser Phe Arg Gly His Val Ile Ile
 1 5 10 15

Ser Ala Asp Asn Ser Ile Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu
 20 25 30

Lys Ala Ser Asp Ser Ala Ile Tyr Phe Cys Ala Arg Pro Ile Ala Ser
 35 40 45

Val Lys Ala Arg Leu Val Ala Pro Ser Lys Asp Tyr Trp Gly Gln Gly
 50 55 60

Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
 65 70 75 80

Pro Leu

<210> 6771

<211> 141

<212> PRT

<213> Homo sapiens

6001

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6771

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Pro | Ser | Xaa | Glu | Ile | Pro | Arg | Ser | Phe | His | Leu | Val | Ile | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Glu | His | Arg | Pro | Pro | Thr | Met | Glu | Phe | Gly | Leu | Ser | Trp | Val | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Val | Ala | Ile | Leu | Lys | Gly | Val | Gln | Cys | Glu | Val | Arg | Leu | Val | Glu |
| | | 35 | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Gly | Gly | Leu | Val | Gln | Pro | Gly | Arg | Ser | Leu | Arg | Leu | Ser | Cys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Thr | Pro | Gly | Phe | Thr | Phe | Asp | Asp | Tyr | Ala | Met | Asn | Trp | Phe | Arg |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ala | Pro | Gly | Arg | Gly | Leu | Glu | Trp | Val | Gly | Phe | Ile | Arg | Ser | Lys |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Tyr | Gly | Gly | Thr | Thr | Gln | Tyr | Ala | Ala | Ala | Val | Lys | Gly | Arg | Phe |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Ser | Arg | Asp | Asp | Ser | Lys | Ser | Ile | Val | Tyr | Leu | Gln | Met | Asn |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Lys | Thr | Glu | Asp | Thr | Ala | Arg | Val | Leu | Leu | Xaa |
| | 130 | | | | | 135 | | | | | 140 | |

<210> 6772

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

6002

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (93)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (111)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6772
 Ile Arg Xaa Ser Ser Thr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu
 1 5 10 15
 Glu Ile Lys Gly Thr Leu Ala Ala Pro Ser Val Phe Ile Leu Pro Pro
 20 25 30
 Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Xaa Val Cys Leu Leu
 35 40 45
 Asn Asn Phe Tyr Pro Xaa Glu Ala Lys Val Gln Trp Lys Val Asp Asn
 50 55 60
 Ala Leu Gln Ser Gly Asn Phe Gln Val Glu Cys His Arg Ala Gly Gln
 65 70 75 80
 Gln Gly Gln His Leu Gln Pro Gln Gln His Pro Asp Xaa Glu Gln Ser
 85 90 95
 Arg Leu Arg Gly Asn Thr Lys Phe Tyr Gly Cys Glu Phe Thr Xaa Gln
 100 105 110
 Gly Leu Arg Leu Ala Arg
 115

<210> 6773
 <211> 147
 <212> PRT
 <213> Homo sapiens

6003

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6773

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Leu | Asn | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Lys | Ala | Xaa | Glu | Leu | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Tyr | Ala | Ala | Ser | Ala | Leu | Arg | Gly | Gly | Val | Pro | Ser | Arg | Phe | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr | Ile | Ser | Ser | Leu | Gln |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Glu | Asp | Phe | Ala | Thr | Tyr | Phe | Cys | Gln | Gln | Ser | Asp | Asp | Phe | Pro |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ser | Phe | Gly | Gln | Gly | Thr | Arg | Leu | Glu | Met | Lys | Arg | Thr | Val | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Thr | Pro |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Val | Ser | Gln | Ser | Arg | Thr | Ala | Arg | Thr | Ala | Pro | Thr | Ala | Ser |
| | 130 | | | | | 135 | | | | | | 140 | | | |

| | | |
|-----|-----|-----|
| Ala | Ala | Pro |
| 145 | | |

<210> 6774

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6004

<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (138)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)

6005

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6774

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ala | Glu | Xaa | Asn | Pro | Ser | Ala | Phe | Phe | Ser | Ser | Cys | Arg | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gln | Ser | Val | Ser | Thr | Arg | Phe | Val | Ala | Trp | Tyr | Gln | Gln | Lys | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gln | Ala | Pro | Arg | Val | Leu | Ile | Tyr | Ser | Thr | Ser | Ser | Arg | Ala | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ile | Pro | Arg | Thr | Gly | Ser | Val | Ala | Val | Gly | Leu | Gly | Thr | Glu | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Leu | Gln | His | Gln | Arg | Ala | Trp | Glu | Pro | Glu | Asp | Phe | Ala | Val |
| | 65 | | | | | 70 | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Xaa | Leu | Cys | Asn | Ser | Tyr | Arg | Arg | Ala | Leu | Gly | His | Phe | Ser | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

6006

Gly Gly Asp Pro Arg Trp Glu Ile Glu Thr Glu Leu Trp Ala Cys Asn
 100 105 110

His Xaa Val Phe Xaa Xaa Xaa Pro Ala Ile Leu Ile Gly Ala Xaa Trp
 115 120 125

Lys Xaa Leu Gly Leu Ala Leu Xaa Xaa Xaa Xaa Pro Xaa Gly Lys Asn
 130 135 140

Phe Phe Phe Pro Gly Xaa Gly Gln Xaa Xaa Lys Gly Arg Xaa Xaa
 145 150 155

<210> 6775

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6775

Ser Thr Met Ala Trp Ala Pro Leu Leu Leu Thr Leu Leu Ala His Cys
 1 5 10 15

Thr Gly Ser Trp Ala Ile Phe Met Leu Thr Gln Pro His Ser Val Ser
 20 25 30

Glu Pro Pro Gly Lys Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly
 35 40 45

Ser Ile Ala Ser Asn Tyr Val Gln Trp Phe Gln Gln Arg Pro Gly Ser
 50 55 60

Ser Pro Thr Thr Val Ile Tyr Glu Asp Asn Gln Arg Pro Ser Gly Val
 65 70 75 80

Pro Asp Arg Phe Ser Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser
 85 90 95

Leu Thr Ile Ser Gly Leu Lys Thr Glu Asp Glu Ala Asp Tyr Tyr Cys
 100 105 110

Gln Ser Tyr Asp Ser Ser Asn Val Val Phe Gly Gly Gly Thr Lys Leu
 115 120 125

Thr Val Leu Gly Gln Ala Gln Gly Leu Pro Leu Gly His Ser Val Pro
 130 135 140

6007

Ala Leu Leu Leu Xaa Ser Phe Lys Pro Thr Arg Pro His Trp Cys Val
145 150 155 160

Ser

<210> 6776

<211> 64

<212> PRT

<213> Homo sapiens

<400> 6776

Ala Pro Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
1 5 10 15

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
20 25 30

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
35 40 45

Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His
50 55 60

<210> 6777

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

6008

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6777

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ala | Ala | Leu | Val | Val | Pro | Gln | Pro | Trp | Pro | Gly | Pro | Phe | Ser | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ala | Ser | Ser | Leu | Thr | Ala | Gln | Ala | Ser | Val | Thr | Ser | Tyr | Val | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Pro | Pro | Ser | Val | Ser | Val | Ala | Pro | Gly | Gln | Thr | Ala | Arg | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Cys | Gly | Ala | Asn | Asn | Ile | Gly | Ile | Lys | Asn | Val | His | Trp | Tyr | Gln |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Lys | Pro | Gly | Gln | Ala | Pro | Val | Leu | Val | Val | Tyr | Asp | Asp | Lys | Arg |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ala | Leu | Xaa | Asp | Pro | Xaa | Arg | Ile | Phe | Trp | Phe | Gln | Leu | Leu | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Xaa | Ala | Thr | Leu | Thr | Ile | Asn | Xaa | Val | Glu | Pro | Gly | Met | Lys | Pro |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Thr | Val | Arg | Cys | Gly | Ile | Leu | Val | Xaa | Pro | Arg | Ser | Val | Arg |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Xaa | Asp | Gln | Thr | Tyr | Arg | Leu | Ile | Asn | Pro | Arg | Leu | Pro | Leu | Gly |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| His | Ser | Val | Pro | Pro | Phe | Xaa |
| 145 | | | | | 150 | |

6009

<210> 6778

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6778

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Gly | Lys | Leu | Cys | Arg | Asn | Ile | Ser | Thr | Met | Ala | Trp | Ala | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Leu | Thr | Leu | Leu | Thr | Gln | Gly | Thr | Gly | Ser | Trp | Ala | Gln | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Thr | Gln | Pro | Pro | Ser | Val | Ser | Gly | Ser | Pro | Gly | Gln | Ser | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Ser | Cys | Thr | Gly | Thr | Ser | Ser | Asp | Val | Gly | Gly | Tyr | Asn | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Trp | Tyr | Gln | Gln | Ser | Pro | Gly | Thr | Ala | Pro | Lys | Leu | Met | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Glu | Val | Ser | Asn | Arg | Pro | Ser | Arg | Val | Pro | Asp | Arg | Phe | Ser | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Ser | Gly | Asn | Thr | Gly | Phe | Leu | Asp | Ile | Phe | Trp | Ala | Pro | Ser |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Xaa | Thr | Lys | Gly | Glu | Leu | Leu | Leu | Xaa | Ala | Arg | Ile | Lys | Xaa | Ser |
| | | | 115 | | | | 120 | | | | | 125 | | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Lys | Phe | Phe | Phe | Leu | Phe |
| | | | | | 130 |

6010

<210> 6779

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6779

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Xaa | Leu | Xaa | Trp | Phe | His | Gln | Arg | Pro | Gly | Gln | Xaa | Pro | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Leu | Tyr | Lys | Ile | Ser | Asn | Arg | Glu | Leu | Trp | Arg | Pro | Xaa | Gln |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Xaa | Arg | Gln | Trp | Gly | Gln | Ala | Leu | Ile | Cys | Thr | Leu | Lys | Ile | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Val | Glu | Ala | Glu | Asp | Val | Gly | Ile | Tyr |
| | 50 | | | | | 55 | | | |

<210> 6780

<211> 36

<212> PRT

<213> Homo sapiens

6011

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6780
His Lys Xaa Val Val Xaa Val Val Gln Tyr Ser Cys Ser Pro Gly Asp
1 5 10 15
Pro Val Val Val Glu Arg Pro Pro Pro Arg Trp Ser Cys Gln Leu Phe
20 25 30
Val Pro Xaa Lys
35

<210> 6781
<211> 46
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)

6012

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6781

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Phe | Phe | Xaa | Phe | Phe | Phe | Xaa | Glu | Met | Glu | Xaa | Val | Pro | Asn |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Cys | Ser | Pro | Gly | Asp | Pro | Leu | Val | Leu | Glu | Xaa | Pro | Pro | Pro | Arg |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Arg | Xaa | Ser | Phe | Gly | Ser | Leu | Leu | Glu | Arg | Xaa | Gln | Ser |
| | | 35 | | | | | 40 | | | | | 45 | |

<210> 6782

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6782

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Val | Pro | Asn | Ser | Cys | Ser | Pro | Gly | Asp | Pro | Leu | Val | Leu | Glu | Arg |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Xaa | Arg | Trp | Ser | Ser | Ser | Phe | Ile | Pro | Xaa | Glu | Gly | Val | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |

6013

Ser Lys Lys
35

<210> 6783

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6783

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asp | Leu | Val | Pro | Asn | Ser | Cys | Ser | Pro | Gly | Asp | Pro | Leu | Val | Leu |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Arg | Pro | Pro | Pro | Arg | Trp | Xaa | Pro | Ala | Phe | Val | Leu | Leu | Glu | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

<210> 6784

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

6014

<400> 6784

Gly His Gly Leu Xaa Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro
1 5 10 15
Leu Val Leu Glu Arg Pro Pro Pro Arg Trp Ser Ser Xaa Ala Leu Phe
20 25 30
Pro Ile Ile Glu Xaa
35

<210> 6785

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6785

His Gly Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu
1 5 10 15
Glu Arg Pro Pro Pro Arg Trp Ser Ser Xaa Xaa Cys Ser Gln Xaa Leu
20 25 30
Arg Xaa Asn Trp
35

<210> 6786

6015

<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6786
Val Val Ser Val Trp Gly Leu Val Pro Asn Ser Cys Ser Pro Gly Asp
1 5 10 15
Pro Leu Val Leu Glu Arg Pro Pro Pro Arg Trp Ser Xaa Ser Phe Val
20 25 30
Pro Leu Val Arg
35

<210> 6787
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6787
Leu Pro Leu Gln Ala Thr Cys Lys Ile Leu Gly Ala Lys Asp Gly Leu
1 5 10 15
Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg Pro
20 25 30
Pro Pro Arg Trp Ser Thr Ser Phe Xaa Pro Leu
35 40

<210> 6788
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)

6016

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6788

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Phe | Phe | Phe | Phe | Phe | Phe | Leu | Xaa | Glu | Asn | Asp | Phe | Ile | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asn | Leu | Val | Pro | Asn | Ser | Cys | Ser | Pro | Gly | Asp | Pro | Leu | Val | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Arg | Ala | Ser | Pro | Arg | Trp | Gly | Pro | Xaa | Phe | Val | Ala | Xaa | Gly | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

Gly

<210> 6789

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6789

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Arg | Pro | Glu | Phe | Leu | Gln | Pro | Gly | Gly | Ser | Thr | Ser | Phe | Arg | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Arg | Arg | Trp | Ser | Ser | Ser | Phe | Ile | Pro | Arg | Glu | Gly | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | |

6017

<210> 6790

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6790

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Asp | Leu | Arg | Leu | Pro | Glu | Gly | Asp | Leu | Gly | Met | Glu | Ile | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Lys | Tyr | Asp | Cys | Gly | Glu | Glu | Ile | Leu | Ile | Thr | Val | Leu | Ser | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Thr | Glu | Glu | Ala | Ala | Val | Ala | Ile | Lys | Ala | Met | Ala | Lys |
| | | 35 | | | | | 40 | | | | | 45 | |

<210> 6791

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6791

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Met | Val | Leu | Leu | Thr | Ala | Val | Leu | Leu | Leu | Ala | Ala | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

6018

Ala Gly Pro Ala Gln Ser Leu Gly Ser Phe Val His Cys Glu Pro Cys
 20 25 30

Asp Glu Lys Ala Leu Ser Met Cys Pro Pro Ser Pro Leu Gly Cys Glu
 35 40 45

Leu Val Lys Glu Pro Gly Cys Gly Cys Cys Met Thr Cys Ala Leu Ala
 50 55 60

Glu Gly Gln Ser Cys Gly Val Tyr Thr Glu Arg Xaa Ala Gln Gly Leu
 65 70 75 80

Arg Xaa Leu Pro Arg Gln Asp Glu Glu Lys Pro Leu His Ala Leu Leu
 85 90 95

His Gly Arg Gly Val Xaa Leu Asn Xaa Lys Ser Tyr
 100 105

<210> 6792
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 6792
 Gln Arg Pro Cys Leu Trp Lys Val Leu Leu Gln Ala Lys Gly Ser His
 1 5 10 15

Pro Ser Arg Leu Gln Thr Thr Asp Asn Leu Leu Pro Met Ser Pro Glu
 20 25 30

Glu Phe Asp Glu Val Ser Arg Ile Val Gly Ser Val Glu Phe Asp Ser
 35 40 45

Met Met Asn Thr Val
 50

<210> 6793
 <211> 98
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>

6019

<221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (94)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (95)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6793
 Ala Leu His Ser Leu Cys Gly Ala Arg Pro Pro Val Pro Val Met Ala
 1 5 10 15
 Met Leu Arg Val Gln Pro Glu Ala Gln Ala Lys Val Asp Val Phe Arg
 20 25 30
 Glu Asp Leu Cys Thr Lys Thr Glu Asn Leu Leu Gly Ser Tyr Phe Pro
 35 40 45
 Lys Lys Ile Ser Glu Leu Asp Ala Phe Leu Lys Glu Pro Ala Leu Asn
 50 55 60
 Glu Ala Asn Leu Ser Asn Leu Xaa Ala Xaa Trp Thr Ser Gln Cys Leu
 65 70 75 80
 Ile Gln Ser Arg Arg Lys Arg Lys Arg Asn Gly Arg Asn Xaa Xaa Xaa
 85 90 95

 Lys Glu

<210> 6794
 <211> 136
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (101)

6020

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6794

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Thr | Glu | Ser | Trp | Tyr | Ala | Cys | Arg | Tyr | Arg | Ser | Gly | Ile | Pro | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | His | Ala | Ser | Ala | Ser | Gly | His | His | Ser | Gly | Pro | Ser | Leu | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Glu | Asn | His | Thr | Ser | Gln | Thr | Phe | Thr | Gln | His | Phe | Leu | Pro | Gln |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gln | Lys | Met | His | Lys | Glu | Glu | His | Glu | Val | Ala | Val | Leu | Gly | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Ser | Thr | Ile | Leu | Pro | Arg | Ser | Thr | Val | Ile | Asn | Ile | His | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Thr | Ser | Val | Pro | Asp | His | Val | Val | Trp | Ser | Leu | Phe | Asn | Thr | Leu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Leu | Asn | Trp | Xaa | Cys | Leu | Gly | Phe | Ile | Ala | Phe | Ala | Tyr | Ser | Val |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ser | Arg | Asp | Arg | Lys | Met | Val | Gly | Xaa | Arg | Asp | Arg | Gly | Pro | Xaa |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Cys | Leu | His | Arg | Ser | Xaa | Ala |
| | 130 | | | | | 135 | |

<210> 6795

<211> 29

<212> PRT

<213> Homo sapiens

6021

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6795

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Met | Xaa | Ile | Ser | Lys | Pro | His | Phe | Glu | Lys | Leu | Phe | Pro | Ser | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Tyr | Leu | Cys | Leu | Leu | Leu | Asn | Asn | His | Phe | Leu | Thr |
| | | 20 | | | | | 25 | | | | | |

<210> 6796

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6796

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | His | Leu | Ile | Lys | Ser | Leu | Lys | Tyr | Gln | Thr | Met | Arg | Xaa | His | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Thr | Trp | Ala | Xaa | Asn | Leu | Arg | Tyr | Xaa | Lys | Pro | Asp | Leu | Asp | Cys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

6022

Met Ala Gly Leu Arg Arg Phe Thr Leu Glu Leu Gln His Thr Tyr Trp
35 40 45

```
<210> 6797
<211> 60
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids
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```
<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 6797
Ala Met Arg Cys Met Pro Val Trp Asn Gly Gln Thr Leu Thr Phe Val
1 5 10 15

Gln Asp Arg Pro Ser Asp Lys Thr Trp Thr Tyr Asn Arg Xaa Asn Val
20 25 30

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Met | Pro | Asp | Asp | Gly | Ala | Pro | Phe | Arg | Tyr | Ser | Phe | Ser | Ala | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

Lys Asp Arg His Asn Ala Leu Xaa Gly Glu Leu Asp
50 55 60

```
<210> 6798
<211> 109
<212> PRT
<213> Homo sapiens
```

```
<400> 6798
Leu Ser Arg Ala Leu Ala Val Glu Leu Leu Asp Lys Val Asn Asn Pro
      1              5              10             15
```

Asp Asn His Ala His Tyr Thr Glu Ala Asp Asp Asp Asp Phe Glu Pro
20 25 30

6023

His Ala Ile Ile Arg His Thr Ile Arg Ser Thr Asn Arg Asn Ala Arg
 35 40 45
 Ala Glu Arg Thr Ala Ser Glu Ile Asn Phe Asp Lys Leu Gln Phe Glu
 50 55 60
 Pro Pro Leu Arg Lys Glu Thr Glu Ala Arg Asp Glu Met Gly Leu Ser
 65 70 75 80
 Ser Arg Pro Lys Phe His Val Tyr Ser Gly Ile Leu Leu Leu Met Val
 85 90 95
 Gln Ile Leu Ala Asn His Leu Lys Thr Leu Gln Tyr His
 100 105

<210> 6799

<211> 69

<212> PRT

<213> Homo sapiens

<400> 6799

Phe Asn Leu Ile Ser Pro Ser Ile Ser Arg Tyr Cys Lys Lys Pro Leu
 1 5 10 15
 Thr Ser Asn Cys Thr Ile Gln Ile Ala Thr Pro Gly Lys Gly Lys Lys
 20 25 30
 Ser Thr Pro Lys Pro Ile Pro Ile Leu Ala Ala Gly Phe Cys Ser Asp
 35 40 45
 Lys Met Ser Leu Leu Leu Val Tyr Gly Ser Trp Phe Gln Pro Thr Ile
 50 55 60
 Glu Arg Val Val Arg
 65

<210> 6800

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6024

<221> SITE
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 <223> Xaa equals any of the naturally occurring L-amino acids

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 <222> (17)
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 <220>
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 <220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6800
 Ala Lys Gly Glu Leu Gln Leu Xaa Met Leu Glu Ile Val His Pro Xaa
 1 5 10 15

 Xaa Val Glu Lys His Tyr Arg Glu Met Glu Glu Lys Leu Ala Leu Ile
 20 25 30

 Ile Gln Lys His Trp Lys Gly Ser Gly Lys Gly Lys Ile Xaa Thr Asn
 35 40 45

 Xaa Ser Xaa Leu Leu Xaa
 50

 <210> 6801
 <211> 42
 <212> PRT
 <213> Homo sapiens

 <400> 6801
 Lys Ile Leu Phe Val Cys Ser Val Lys Leu Ser Leu Tyr Val Cys Leu

6025

1 5 10 15
 Leu Gln Leu Ser Pro Phe Val Tyr Ser Glu Phe Ala Arg Glu Arg Asn
 20 25 30
 Leu His Val Ser Leu Leu Asp Pro Thr Leu
 35 40

 <210> 6802
 <211> 174
 <212> PRT
 <213> Homo sapiens

 <220>
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 <222> (168)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (172)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6802
 Ser Asp Gln Asp Leu Asn Arg Met Arg Ser Glu Leu Leu Val Pro Gly
 1 5 10 15
 Ser Gln Leu Ile Leu Gly Pro His Glu Ser Lys Ile Pro Ile Leu Leu
 20 25 30
 Ile Gln Gln Pro Gly Lys Val Thr Gly Glu Asp Arg Leu Gly Trp Gly
 35 40 45
 Ser Gly Trp Asp Val Leu Leu Pro Lys Gly Trp Gly Met Ala Phe Trp
 50 55 60
 Ile Pro Phe Ile Tyr Arg Gly Val Arg Val Gly Gly Leu Lys Glu Ser
 65 70 75 80
 Ala Val His Ser Gln Tyr Lys Arg Ser Pro Asn Val Pro Gly Asp Phe
 85 90 95
 Pro Asp Cys Pro Ala Gly Met Leu Phe Ala Glu Glu Gln Ala Lys Asn
 100 105 110
 Leu Leu Glu Lys Tyr Lys Arg Arg Pro Pro Ala Lys Arg Pro Asn Tyr
 115 120 125
 Val Lys Leu Gly Thr Leu Ala Pro Phe Cys Cys Pro Trp Glu Gln Leu

6026

130 135 140
 Thr Gln Asp Trp Glu Ser Arg Val Gln Ala Tyr Glu Glu Pro Ser Val
 145 150 155 160
 Ala Ser Ser Pro Asn Gly Lys Xaa Ser Asp Leu Xaa Lys Ile
 165 170

<210> 6803

<211> 122

<212> PRT

<213> Homo sapiens

<220>

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<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6803

Arg Gln Val Leu Val Leu Phe Ile Asp Glu Ala Ser Gln Lys Met Ser
 1 5 10 15

Lys Gln Gln Pro Thr Gln Phe Ile Asn Pro Glu Thr Pro Gly Tyr Val
 20 25 30

Gly Phe Ala Asn Leu Pro Asn Gln Val His Arg Lys Ser Val Lys Lys
 35 40 45

Gly Phe Glu Phe Thr Leu Met Val Val Gly Glu Ser Gly Leu Gly Lys
 50 55 60

Ser Thr Leu Ile Asn Ser Leu Phe Leu Thr Asp Leu Tyr Pro Glu Arg
 65 70 75 80

Val Ile Pro Gly Ala Ala Glu Lys Ile Glu Arg Thr Val Gln Ile Glu
 85 90 95

Ala Ser Thr Val Glu Ile Glu Glu Xaa Gly Val Lys Leu Arg Leu Xaa
 100 105 110

Ser Gly Arg Tyr Pro Trp Leu Trp Val Thr
 115 120

6027

<210> 6804

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6804

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Xaa | Pro | Arg | Ala | Ala | Gly | Ile | Arg | His | Glu | Gly | Arg | Ser | Gly | Ala |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Asp | Lys | Arg | Ala | Arg | Glu | Ala | Gly | Asn | Ile | Asn | Gln | Ser | Leu | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Gly | Arg | Val | Ile | Thr | Ala | Leu | Val | Glu | Arg | Thr | Pro | His | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Tyr | Arg | Glu | Ser | Lys | Leu | Thr | Arg | Ile | Leu | Gln | Asp | Ser | Xaa | Gly |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Thr | Arg | Thr | Ser | Ile | Ile | Ala | Thr | Ile | Ser | Pro | Ala | Ser | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Glu | Glu | Thr | Leu | Ser | Thr | Leu | Glu | Tyr | Ala | His | Arg | Ala | Lys |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ile | Leu | Xaa | Lys | Pro | Xaa | Val | Asn | Gln | Lys | Leu | Thr | Lys | Lys | Ala |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | |
|-----|-----|-----|
| Leu | Ile | Lys |
| | | 115 |

6028

<210> 6805
 <211> 19
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6805
 Val Trp Lys Arg His Ser Arg Met Ser Tyr Leu Xaa Val Pro Tyr Val
 1 5 10 15

Thr His Ser

<210> 6806
 <211> 146
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (90)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (114)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (145)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6806
 Arg Thr Thr Val Thr Glu Val Ser Arg Ala Phe Ser Leu Leu Cys Lys
 1 5 10 15

Met Ala Thr Leu Lys Glu Lys Leu Ile Ala Pro Val Ala Glu Glu Glu

6029

| | | | | | | |
|---|-----|----|-----|----|-----|----|
| | 20 | | 25 | | 30 | |
| Ala Thr Val Pro Asn Asn Lys Ile Thr Val Val Gly Val Gly Gln Val | | | | | | |
| | 35 | | 40 | | 45 | |
| Gly Met Ala Cys Ala Ile Ser Ile Leu Gly Lys Ser Leu Ala Asp Glu | | | | | | |
| | 50 | | 55 | | 60 | |
| Leu Ala Leu Val Asp Val Leu Glu Asp Lys Leu Lys Gly Glu Met Met | | | | | | |
| | 65 | | 70 | | 75 | 80 |
| Asp Leu His His Gly Ser Leu Phe Leu Xaa Thr Pro Lys Ile Val Ala | | | | | | |
| | | 85 | | 90 | | 95 |
| Asp Lys Asp Tyr Ser Val Thr Ala Xaa Ser Lys Ile Val Val Val Thr | | | | | | |
| | 100 | | 105 | | 110 | |
| Ala Xaa Val Arg Gln Gln Glu Gly Glu Ser Arg Leu Asn Leu Val Gln | | | | | | |
| | 115 | | 120 | | 125 | |
| Arg Asn Val Asn Val Phe Lys Phe Ile Ile Pro Gln Ile Val Lys Tyr | | | | | | |
| | 130 | | 135 | | 140 | |
| Xaa Ser | | | | | | |
| 145 | | | | | | |

<210> 6807

<211> 175

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

6030

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

6031

<220>
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<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (163)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

6032

<400> 6807

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Leu Xaa Pro Ala Xaa Xaa Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg
 1             5             10             15

Pro Thr Ser Ser Ser Ser Arg Ala Ala Ala Leu Glu Asp Xaa Arg Leu
          20             25             30

Arg Thr Gln Pro Cys Gln Xaa Xaa Ala Xaa Xaa Xaa Gly Xaa Xaa Xaa
      35             40             45

Xaa Xaa Xaa Xaa Ala Ala Val Xaa Gln Arg Arg Asp Trp Glu Asn Pro
      50             55             60

Gly Val Thr Gln Leu Asn Arg Leu Ala Xaa His Pro Pro Phe Ala Ser
 65             70             75             80

Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu
          85             90             95

Arg Ser Leu Asn Gly Glu Trp Asp Ala Pro Cys Ser Gly Ala Leu Ser
          100             105             110

Ala Xaa Gly Val Val Val Thr Arg Ser Val Thr Ala Thr Leu Ala Ser
      115             120             125

Ala Leu Ala Pro Ala Pro Phe Ala Xaa Phe Pro Ser Phe Xaa Xaa Thr
      130             135             140

Phe Ala Gly Phe Pro Arg Gln Ala Leu Asn Arg Gly Leu Pro Leu Gly
 145             150             155             160

Phe Arg Xaa Ser Ala Leu Arg His Leu Asp Xaa Lys Lys Leu Asp
          165             170             175

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<210> 6808

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

6033

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6808

Xaa Xaa Lys Ser Trp Cys Ser Thr Ala Val Ala Xaa Ala Leu Glu Leu
1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Glu Cys Gln Val Ile
20 25 30

Val Ser Gln Pro Ile Ile Phe Lys Thr Glu Thr Pro Ser Asn
35 40 45

<210> 6809

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6809

Leu Leu Xaa Met Arg Leu Pro Ala Gln Leu Leu Xaa Leu Leu Met Leu
1 5 10 15

Trp Val Ser Gly Ser Ser Gly Asn Ile Val Met Thr Gln Ser Pro Leu
20 25 30

Ser Leu Pro Val Thr Pro Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser
35 40 45

6034

Ser Gln Thr Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr
 50 55 60

Leu Gln Lys Pro Gly Gln Ser Xaa Gln Leu Leu Ile Tyr Leu Gly Ser
 65 70 75 80

Asn Arg Ala Phe Xaa Gly Ser Leu Thr Gly Phe
 85 90

<210> 6810

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6810

Xaa Xaa Ile Cys Glu Leu Pro Leu Lys Leu Val Arg Pro Ala Gly Thr
 1 5 10 15

Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Xaa Leu Ser Tyr Asn
 20 25 30

Lys Leu Lys Asn Ile Pro Thr Val Asn Glu Asn Leu Glu Asn Tyr Tyr
 35 40 45

Leu Glu Val Asn Gln Leu Glu Lys Phe Asp Ile Lys Ser Phe Cys Lys
 50 55 60

Ile Leu Gly Pro Leu Ser Tyr Ser Lys Ile Lys Gln Lys Leu Phe Met
 65 70 75 80

Ser Ile Ala Ser Gln Lys Pro Val Phe His Arg Ile Cys Met Asn Val
 85 90 95

6035

Tyr Val Leu Leu Thr Lys Ser Leu Leu Ile Asn Ile Cys Ile Leu Glu
 100 105 110

Gln Tyr Phe Met Val Met Phe Phe Cys Val Ser Val Phe Ile Val Ser
 115 120 125

Ile Phe Tyr Tyr Cys Leu Leu Leu Pro
 130 135

<210> 6811

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6811

Pro Arg Val Arg Ala Val Met Ala Pro Arg Thr Leu Leu Leu Leu Leu
 1 5 10 15

Leu Gly Ala Leu Ala Leu Thr Gln Thr Trp Ala Gly Ser His Ser Met

6036

| | | | | | |
|---|-----|----|-----|----|-----|
| | 20 | | 25 | | 30 |
| Arg Tyr Phe Thr Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg | | | | | |
| 35 | | 40 | | 45 | |
| Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp | | | | | |
| 50 | | 55 | | 60 | |
| Ser Asp Ala Xaa Ser Gln Arg Met Glu Pro Arg Ala Pro Trp Ile Glu | | | | | |
| 65 | | 70 | | 75 | 80 |
| Gln Glu Arg Pro Glu Tyr Trp Asp Gln Glu Thr Arg Asn Val Lys Ala | | | | | |
| | 85 | | 90 | | 95 |
| His Ser Gln Ile Asp Arg Val Asp Leu Gly Thr Leu Arg Gly Tyr Tyr | | | | | |
| | 100 | | 105 | | 110 |
| Asn Gln Ser Glu Ala Gly Ser Xaa Thr Xaa Xaa Met Met Tyr Gly Cys | | | | | |
| | 115 | | 120 | | 125 |
| Xaa Val Gly Phe Gly Arg Ala Leu Pro Xaa Arg Val Pro Thr | | | | | |
| | 130 | | 135 | | 140 |

<210> 6812

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6812

| |
|---|
| Glu Ala Cys Xaa Asp Leu Ala Lys Glu Gln Gly Pro Tyr Glu Thr Tyr |
| 1 5 10 15 |

| |
|---|
| Glu Gly Ser Pro Val Ser Lys Gly Ile Leu Gln Tyr Asp Met Trp Asn |
| 20 25 30 |

| |
|---|
| Val Thr Pro Thr Asp Leu Trp Asp Trp Lys Val Leu Lys Glu Lys Ile |
| 35 40 45 |

| |
|---|
| Ala Lys Tyr Gly Ile Arg Asn Ser Leu Leu Ile Ala Pro Met Pro Thr |
|---|

6037

| | | |
|---|-----|---------|
| 50 | 55 | 60 |
| Ala Ser Thr Ala Gln Ile Leu Gly Asn Asn Glu Ser Ile Glu Pro Tyr | | |
| 65 | 70 | 75 80 |
| Thr Ser Asn Ile Tyr Thr Arg Arg Asp Leu Ser Gly Glu Phe Gln Ile | | |
| | 85 | 90 95 |
| Val Asn Pro His Leu Leu Lys Asp Leu Thr Glu Arg Gly Leu Trp His | | |
| | 100 | 105 110 |
| Glu Glu Met Lys Asn Gln Ile Ile Ala Cys Asn Gly Ser Ile Xaa Ser | | |
| | 115 | 120 125 |
| Ile Pro | | |
| 130 | | |

<210> 6813

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6038

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6813

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Met | Gln | Ala | Xaa | Asp | Asn | Ile | Thr | Xaa | Ala | Arg | Leu | Leu | Gln | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Leu | Gln | Asn | Val | Ser | Asp | Ala | Glu | Ser | Cys | Tyr | Leu | Val | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Leu | Glu | Phe | Tyr | Leu | Lys | Thr | Val | Phe | Lys | Asn | Tyr | His | Asn |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Thr | Val | Glu | Val | Arg | Asp | Xaa | Xaa | Xaa | Ile | Leu | Xaa |
| | | | 50 | | | 55 | | | | | 60 | |

<210> 6814

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6814

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Thr | Gln | Glu | Thr | Thr | Ser | Ile | Ser | Val | Thr | His | Phe | Leu | Ser | Phe |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Gly | Phe | Trp | Lys | Leu | Ala | Ile | Cys | Met | Ala | Lys | Thr | Asp | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Xaa | His | Gln | Pro | Asp | Lys | Lys | Gly | Val | Pro | Arg | Asp | Xaa | Ile |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

6039

35 40 45

Leu Pro Ile Ser Asp Val Arg Ala Ser Ile Xaa Ala Trp Gly Gln Leu

50 55 60

Pro Leu Val Gly Thr Xaa His His

65 70

<210> 6815

<211> 209

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (201)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6815

Gly Asp Gln Pro Thr Ala Xaa Cys Xaa Cys Ile Gln Arg Gln Val Pro
1 5 10 15

Pro Val Pro Ala Ala Arg Ala Pro Gln Ser Arg Thr Arg Ser Ala Gln
20 25 30

6040

Ala Lys Leu Ala Leu Thr Met Pro Val Lys Gly Gly Thr Lys Cys Ile
 35 40 45
 Lys Tyr Leu Leu Phe Gly Phe Asn Phe Ile Phe Trp Leu Ala Gly Ile
 50 55 60
 Ala Val Leu Ala Ile Gly Leu Trp Leu Arg Phe Asp Ser Gln Thr Lys
 65 70 75 80
 Ser Ile Phe Glu Gln Glu Thr Asn Asn Asn Asn Ser Ser Phe Tyr Thr
 85 90 95
 Gly Val Tyr Ile Leu Ile Gly Ala Gly Ala Leu Met Met Leu Val Gly
 100 105 110
 Phe Leu Gly Cys Cys Gly Ala Val Gln Glu Ser Gln Cys Met Leu Gly
 115 120 125
 Leu Phe Phe Gly Phe Leu Leu Val Ile Phe Ala Ile Glu Ile Ala Ala
 130 135 140
 Ala Ile Trp Gly Tyr Ser His Lys Asp Glu Val Ile Lys Glu Val Gln
 145 150 155 160
 Glu Phe Tyr Lys Asp Thr Tyr Asn Lys Leu Lys Thr Lys Asp Glu Pro
 165 170 175
 Gln Arg Glu Thr Leu Lys Ala Ile His Tyr Ala Leu Asn Cys Xaa Gly
 180 185 190
 Xaa Gly Trp Gly Ala Trp Lys Gln Xaa Tyr Leu Lys Lys Xaa Trp Pro
 195 200 205

Gln

<210> 6816

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6041

<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
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<220>
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<220>
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<222> (71)
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (80)
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<220>
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<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (114)

6042

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6816

Val Glu Xaa Asn Ser Pro Xaa Xaa Arg Xaa Leu Leu Gln Ile Leu Leu
1 5 10 15

Ser Phe Ala Ser Gly Gly Leu Leu Gly Asp Ala Phe Leu His Leu Ile
20 25 30

Pro His Ala Leu Glu Pro His Ser His His Thr Leu Glu Gln Pro Gly
35 40 45

His Gly His Ser His Ser Gly Gln Gly Pro Ile Leu Ser Val Gly Leu
50 55 60

Xaa Xaa Leu Xaa Gly Ile Xaa Ala Phe Xaa Asp Val Glu Lys Phe Xaa
65 70 75 80

Arg His Val Lys Gly Gly His Gly His Ser His Gly His Gly His Ala
85 90 95

His Ser His Thr Arg Gly Ser His Gly His Gly Arg Xaa Glu Arg Ser
100 105 110

Thr Xaa Glu Lys Xaa Ile Ser Glu Glu Glu Asp
115 120

<210> 6817

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6817

Xaa Asp Ile Glu Phe Ile Tyr Thr Ala Pro Ser Ser Ala Val Cys Gly
1 5 10 15

Val Ser Leu Asp Val Gly Gly Lys Lys Glu Tyr Leu Ile Ala Gly Lys
20 25 30

6043

Ala Glu Gly Asp Gly Lys Met His Ile Thr Leu Cys Asp Phe Ile Val
 35 40 45

Pro Trp Asp Thr Leu Ser Thr Thr Gln Lys Lys Ser Leu Asn His Arg
 50 55 60

Tyr Gln Met Gly Cys Glu Cys Lys Ile Thr Arg Cys Pro Met Ile Pro
 65 70 75 80

Cys Tyr Ile Ser Ser Pro Asp Glu Cys Leu Trp Met Asp Trp Val Thr
 85 90 95

Glu Lys Asn Ile Asn Gly His Gln Ala Lys Phe Phe Ala Cys Ile Lys
 100 105 110

Arg Ser Asp Gly Ser Cys Ala Trp Tyr Arg Gly Ala Ala Pro Pro Lys
 115 120 125

Gln Glu Phe Leu Asp Ile Glu Asp Pro
 130 135

<210> 6818

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6818

Pro Arg Ala Arg Pro Ala Ala Pro Ala Ala Ala Pro Gly Pro Leu Ala
 1 5 10 15

Ala Ala Thr Met Asp Ala Ile Lys Lys Lys Met Gln Met Leu Lys Leu
 20 25 30

Asp Lys Glu Asn Ala Leu Asp Arg Ala Glu Gln Ala Glu Ala Asp Lys

6044

| | | |
|---|-----|-----|
| 35 | 40 | 45 |
| Lys Ala Ala Glu Asp Arg Ser Lys Gln Leu Glu Asp Glu Leu Val Ser | | |
| 50 | 55 | 60 |
| Leu Gln Lys Lys Leu Lys Gly Thr Glu Asp Glu Leu Asp Lys Tyr Ser | | |
| 65 | 70 | 75 |
| Glu Ala Leu Lys Asp Ala Gln Glu Lys Leu Glu Leu Ala Glu Lys Lys | | |
| 85 | 90 | 95 |
| Ala Thr Asp Ala Glu Ala Asp Val Ala Ser Leu Asn Arg Arg Ile Gln | | |
| 100 | 105 | 110 |
| Leu Val Glu Glu Glu Val Trp Ile Val Pro Lys Xaa Arg Ser Gly Asn | | |
| 115 | 120 | 125 |
| Ser Phe Ala Glu Thr Trp Xaa Lys Leu Glu Lys Ala Ala Asp Glu Ser | | |
| 130 | 135 | 140 |
| Glu Arg Xaa Met Lys Val Ile Glu Lys Ser Ser Pro Lys Arg | | |
| 145 | 150 | 155 |

<210> 6819

<211> 37

<212> PRT

<213> Homo sapiens

<400> 6819

| |
|---|
| Cys Lys Met Phe Ala Cys Ala Lys Leu Ala Cys Thr Pro Ser Leu Ile |
| 1 5 10 15 |

| |
|---|
| Arg Ala Gly Ser Ile Val Ala Tyr Arg Pro Ile Ser Ala Ser Val Phe |
| 20 25 30 |

| |
|---------------------|
| Ile Ser Thr Arg Ser |
| 35 |

<210> 6820

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

6045

<220>

<221> SITE

<222> (160)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6820

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asn | Val | Leu | Lys | Thr | Ser | Gly | Lys | Leu | Arg | Glu | Asn | Leu | Leu | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Leu | Glu | His | Tyr | Val | Asn | Cys | Leu | Asp | Leu | Val | Asn | Lys | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Pro | Tyr | Gly | Leu | Ala | Gln | Ile | Gly | Val | Cys | Phe | His | Pro | Val | Phe |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Thr | Lys | Gln | Ile | Arg | Asn | Gly | Val | Lys | Ser | Ile | Gly | Glu | Lys | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ala | Ser | Leu | Val | Trp | Phe | Thr | Pro | Pro | Arg | Thr | Ser | Asn | Gln | Trp |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asp | Phe | Trp | Leu | Arg | His | Arg | Leu | Gln | Trp | Trp | Arg | Lys | Phe | Ala |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Pro | Ser | Asn | Phe | Ser | Ser | Ser | Asp | Cys | Gln | Asp | Glu | Glu | Gly |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Lys | Gly | Asn | Lys | Leu | Tyr | Tyr | Asn | Phe | Pro | Leu | Gly | Lys | Gly | Val |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Arg | Asn | Pro | Val | Glu | Pro | Lys | Arg | Ser | Glu | Leu | Leu | His | Met | Tyr |
| | | 130 | | | | | 135 | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Asn | Xaa | Ala | Lys | Leu | Pro | Trp | Pro | Lys | Trp | Thr | Lys | Lys | Xaa |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

6046

Gly Ser Leu Gly Ser Ser Leu Glu Met Gly Thr Xaa Thr Arg Gly Met
165 170 175

Leu Xaa Asn Xaa Met Ile Leu
180

<210> 6821
<211> 109
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

6047

<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (97)

6048

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6821

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Leu | Leu | Ser | Ser | Arg | Xaa | Leu | Xaa | Ala | Lys | Xaa | Xaa | Gly | Xaa | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Ser | His | Arg | Ala | Leu | Gln | Gly | Thr | Ile | Ala | Xaa | Asn | Xaa | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Asp | Met | Gln | Val | Leu | Glu | Lys | Leu | Ser | Gly | Lys | Leu | Xaa | Glu | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Lys | Asp | Phe | Xaa | Met | Ile | Arg | Xaa | Met | Lys | Xaa | Lys | Leu | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gln | Asn | Ser | Xaa | Val | Met | Pro | Trp | Asp | Pro | Xaa | Tyr | Tyr | Ser | Gly |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ile | Arg | Ala | Glu | Arg | Xaa | Asn | Ile | Glu | Pro | Ser | Leu | Tyr | Cys | Pro |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Phe | Xaa | Leu | Gly | Ala | Cys | Met | Glu | Ser | Leu | Asn | Ile |
| | | | 100 | | | | | 105 | | | | |

<210> 6822

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

6049

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (107)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (131)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (143)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6822
 Arg Thr Xaa Ala Xaa Gly Glu Arg Ala Cys Arg Ser Thr Leu Val Asp
 1 5 10 15
 Pro Lys Xaa Val Xaa Thr Val Phe Ser Leu Gly Ala Cys Met Glu Gly
 20 25 30
 Leu Asn Ile Leu Leu Asn Arg Leu Leu Gly Ile Ser Leu Tyr Ala Glu
 35 40 45
 Gln Pro Ala Lys Gly Glu Val Trp Ser Glu Asp Val Arg Lys Leu Ala
 50 55 60
 Val Val His Glu Ser Glu Gly Leu Leu Gly Tyr Ile Tyr Cys Asp Phe
 65 70 75 80
 Phe Gln Arg Ala Asp Lys Pro His Gln Asp Cys His Phe Thr Ile Arg
 85 90 95
 Gly Gly Arg Leu Lys Gly Arg Trp Glu Thr Xaa Gln Leu Pro Val Val
 100 105 110

6050

Ser Ser Tyr Ala Gly Ile Phe Pro Val Pro Xaa Arg Glu Phe Ser Asn
 115 120 125

Phe Gly Xaa Xaa Leu Gly Met Met Gly Lys Pro Phe Pro Gly Xaa Gly
 130 135 140

<210> 6823

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6823

Ala Xaa Ser Ser Leu Trp Glu Ser Lys Pro Arg Xaa Gly Thr Glu Ala
 1 5 10 15

Ser Glu Leu Leu Pro Thr Leu Asp Thr Lys Ala Pro Thr Gly Arg Arg
 20 25 30

Thr Lys Pro Trp Gly Arg Leu Lys Arg Arg Ala Arg Ser Pro Gln Gly
 35 40 45

Gln Thr Ala Lys Pro Gln Ser Cys Cys Gly Ala Glu His Arg Gly Pro
 50 55 60

Gln Ala Leu Arg Lys Gly Arg Gly Asp Pro Gly Ala Arg Glu Arg Ser
 65 70 75 80

Pro Arg Ala Ile Ser Arg Ala Gly Arg Arg Glu Pro Arg Ala Val His
 85 90 95

Ser Cys Gly Leu
 100

6051

<210> 6824
 <211> 109
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (95)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (98)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (107)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6824
 Phe Lys Arg Glu Thr Gly Val Asp Leu Thr Lys Asp Asn Met Ala Leu
 1 5 10 15
 Gln Arg Val Arg Glu Ala Ala Glu Lys Ala Lys Cys Glu Leu Ser Ser
 20 25 30
 Ser Val Gln Thr Asp Ile Asn Leu Pro Tyr Leu Thr Met Asp Ser Ser
 35 40 45
 Gly Pro Lys His Leu Asn Met Lys Leu Thr Arg Ala Gln Phe Glu Gly
 50 55 60
 Ile Val Thr Asp Leu Ile Arg Arg Thr Ile Ala Pro Cys Gln Lys Ala
 65 70 75 80
 Met His Asp Ala Glu Val Ile Leu Ser Asp Ile Xaa Glu Val Xaa Pro
 85 90 95
 Val Xaa Gly Met Thr Arg Met Pro Met Phe Xaa Arg Leu
 100 105

<210> 6825
 <211> 48

6052

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6825

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Glu | Xaa | Thr | Lys | Lys | Leu | Arg | Glu | Gln | Gly | Ser | Leu | Leu | Gly |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Val | Gln | Asn | Gly | Thr | Glu | Pro | Ser | Ser | Leu | Pro | Phe | Leu | Asp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asn | Ala | Arg | Pro | Leu | Val | Pro | Glu | Val | Ser | Ile | Lys | Val | Gln | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

<210> 6826

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

6053

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6826

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Leu | Asn | Asn | Leu | Xaa | Pro | Asn | Tyr | Ala | Xaa | Glu | Lys | Leu | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Gln | Phe | Asn | Met | His | Val | Phe | Lys | Leu | Glu | Gln | Glu | Glu | Tyr | Met |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Glu | Asp | Ile | Pro | Trp | Thr | Leu | Ile | Asp | Phe | Tyr | Asp | Xaa | Gln | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Phe | Asp | Leu | Ile | Glu | Xaa | Lys | Trp | Glu | Ser | Trp | Xaa | Phe | Trp | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Lys | Asn | Xaa | Cys | Phe |
| | 65 | | | |

<210> 6827

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6827

6054

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Leu | Ser | Trp | Glu | Arg | Arg | Gly | Pro | Ser | Ser | Ala | Pro | Pro | Thr | Val |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| | | | | | | | | | | | | | | | |
| Trp | Glu | Thr | Val | Pro | Ser | Pro | Leu | Leu | Gly | Ser | Lys | His | Leu | Phe | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| | | | | | | | | | | | | | | | |
| Val | Leu | Met | Glu | Ser | Trp | Cys | Leu | Ser | Pro | Ser | Ala | Ala | Gln | Lys | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| | | | | | | | | | | | | | | | |
| Cys | Arg | Leu | Leu | Gly | Leu | Gly | Val | Thr | Asp | Phe | Ser | Arg | Ala | Leu | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| | | | | | | | | | | | | | | | |
| Thr | Pro | Arg | Ile | Lys | Val | Gly | Arg | Asp | Tyr | Val | Gln | Lys | Ala | Gln | Thr |
| 65 | | | | 70 | | | | | | 75 | | | | | 80 |
| | | | | | | | | | | | | | | | |
| Lys | Glu | Gln | Val | Xaa | Gly | Ala | Gly | Gly | Gly | Gln | Xaa | Thr | Xaa | Arg | Ala |
| | | | | 85 | | | | | 90 | | | | | 95 | |

<210> 6828

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6828

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Glu | Asp | Leu | His | Asp | Leu | Leu | Ala | Ser | Leu | Xaa | Asn | Asn | Ala | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

6055

Asp Asp Tyr Leu Asn Ala Met Xaa Ser Glu Ala Pro Met Pro Ile Xaa
 20 25 30

Phe Ala Met Phe Leu Thr Met
 35

<210> 6829

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6829

Lys Val Leu Met Arg Asn Leu Ala Leu Pro Glu Asp Val Arg Gly Lys
 1 5 10 15

Cys Thr Ser Leu Leu Gln Leu Tyr Asp Ala Ser Asn Ser Glu Trp Gln
 20 25 30

Leu Gly Lys Thr Lys Val Phe Leu Arg Glu Ser Leu Glu Gln Lys Leu
 35 40 45

Glu Lys Arg Arg Glu Glu Glu Val Ser His Ala Ala Met Val Ile Arg
 50 55 60

Ala His Val Leu Gly Phe Leu Ala Arg Lys Gln Tyr Arg Lys Val Leu
 65 70 75 80

Tyr Cys Val Val Ile Ile Gln Lys Asn Tyr Arg Ala Phe Leu Leu Arg
 85 90 95

Arg Arg Phe Leu His Leu Lys Lys Ala Ala Ile Val Phe Gln Lys Gln
 100 105 110

Leu Arg Gly Gln Ile Ala Arg Arg Val Tyr Arg Gln Phe Ala Gly Arg
 115 120 125

Glu Lys Gly Ala Arg Xaa Lys Lys
 130 135

<210> 6830

<211> 69

6056

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6830

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Leu | Ala | Lys | Glu | Thr | Leu | Glu | Pro | Leu | Ser | Gln | Ala | Ala | Trp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Gln | Val | Lys | Lys | Thr | Thr | Asp | Ser | Asp | Ala | Lys | Xaa | Ile | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Arg | Cys | Thr | Ser | Leu | Ser | Ala | Val | Gln | Ile | Ile | Lys | Xaa | Leu | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Tyr | Thr | Pro | Ile | Asp | Asp | Phe | Glu | Lys | Arg | Val | Thr | Pro | Ser | Phe |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Val | Arg | Lys | Val | Gln |
| 65 | | | | |

<210> 6831

<211> 179

<212> PRT

<213> Homo sapiens

<400> 6831

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Arg | Tyr | Ile | Lys | Ala | Leu | Ala | Glu | Glu | Asn | Arg | Asn | Val | Val |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Gly | Pro | Tyr | Ala | Gly | Val | Met | Thr | Ala | Tyr | Asp | Leu | Lys | Lys | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Val | Leu | Leu | Asp | Asn | Ile | Leu | Gln | Arg | Ile | Gly | Lys | Leu | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Val | Asp | Asn | Leu | Val | Val | Asn | Gly | Thr | Gly | Thr | Asn | Ser | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Thr | Thr | Ala | Val | Pro | Ser | Leu | Val | Ala | Leu | Glu | Lys | Ile | Asn |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

6057

Val Ala Asp Ile Ile Asn Gly Ala Gln Glu Lys Cys Val Leu Pro Pro
 85 90 95
 Met Asp Gly Tyr Pro His Cys Glu Gly Lys Ile Lys Trp Met Lys Asp
 100 105 110
 Met Trp Arg Ser Asp Pro Cys Tyr Ala Asp Tyr Gly Val Asp Gly Ser
 115 120 125
 Thr Cys Ser Phe Phe Ile Tyr Leu Ser Glu Val Glu Asn Trp Cys Pro
 130 135 140
 His Leu Pro Trp Arg Ala Lys Asn Pro Tyr Glu Glu Ala Asp His Asn
 145 150 155 160
 Ser Leu Ala Glu Ile Leu Gln Ile Phe Asn Ile Leu Tyr Ser Met Met
 165 170 175
 Lys Lys Ala

<210> 6832
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 6832
 Ala Cys Arg Asp Val Arg Arg Leu Ser Leu Ser Val Met Ala Leu Lys
 1 5 10 15
 Glu Gln Thr Ile Pro Pro Ser Ala Lys Tyr Gly Gly Arg His Thr Val
 20 25 30
 Thr Met Ile Pro Gly Asp Gly Ile Gly Pro Glu Leu Met Leu His Val
 35 40 45
 Lys Ser Val Phe Arg His Ala Cys Val Thr Ser Gly Leu
 50 55 60

<210> 6833
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 6833
 Gln Lys Leu Ala Pro Ile Ser Ile Ile Tyr Gln Ile Ser Pro Ser Leu

6058

| | | | |
|---|----|----|----|
| 1 | 5 | 10 | 15 |
| Asn Val Ser Leu Leu Leu Thr Leu Ser Ile Leu Ser Ile Ile Ala Gly | | | |
| | 20 | 25 | 30 |

Ser

<210> 6834

<211> 29

<212> PRT

<213> Homo sapiens

<400> 6834

| |
|---|
| Thr Ile Thr Asn Thr Thr Asn Gln Tyr Ser Ser Leu Ile Ile Ile Met |
| 1 5 10 15 |

| |
|---|
| Ala Ile Ala Ile Lys Leu Gly Ile Ala Pro Phe His Phe |
| 20 25 |

<210> 6835

<211> 21

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6835

| |
|---|
| Xaa Gly Leu Asn Gln Thr Gln Leu Arg Lys Ile Leu Ala Tyr Ser Ser |
| 1 5 10 15 |

| |
|---------------------|
| Ile Thr His Ile Xaa |
| 20 |

<210> 6836

<211> 29

<212> PRT

6059

<213> Homo sapiens

<400> 6836

Thr Ile Thr Asn Thr Thr Asn Gln Tyr Ser Ser Leu Ile Ile Ile Met
1 5 10 15

Ala Ile Ala Ile Lys Leu Gly Ile Ala Pro Phe His Phe
20 25

<210> 6837

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6837

Leu Thr Pro Leu Ile Pro Ser Thr Leu Xaa Ser Leu Gly Xaa Leu Pro
1 5 10 15

Pro Leu Thr Gly Phe Leu Pro Lys Trp Ala Ile Ile Glu Glu Phe Thr
20 25 30

Thr Asn Xaa Ser Leu Ile Ile Pro Thr Ile Xaa Xaa His Ile Thr Ser
35 40 45

6060

Leu Asn Ser Asn Ser Asn Tyr Ala
 50 55

<210> 6838
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 6838
 Leu Pro Gln Leu Asn Gly Tyr Ile Glu Lys Ser Thr Pro Tyr Glu Cys
 1 5 10 15
 Gly Phe Asp Pro Ile Ser Pro Ala Arg Val Pro Phe Ser Ile Lys Phe
 20 25 30
 Phe Leu Val Ala Ile Thr Phe Leu Leu Phe Asp Leu Glu Ile Ala Leu
 35 40 45
 Leu Leu Pro Leu Pro
 50

<210> 6839
 <211> 50
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6839
 Ser Xaa Thr Gly Ala Val Ile Leu Ile Ile Ala His Gly Leu Thr Ser
 1 5 10 15
 Ser Leu Leu Phe Cys Leu Ala Asn Ser Asn Tyr Glu Arg Thr His Arg
 20 25 30

6061

Arg Xaa Ile Ile Leu Ser Gln Gly Leu Gln Thr Leu Leu Pro Leu Ile
35 40 45

Xaa Phe
50

<210> 6840
<211> 16
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6840
Ile Ile Met Ala Ile Xaa Ile Lys Leu Gly Ile Ala Pro Phe His Phe
1 5 10 15

<210> 6841
<211> 152
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)

6062

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

6063

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6841

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Ser | Lys | Val | Pro | Leu | Gln | Xaa | Asn | Phe | Gln | Asp | Asn | Gln | Phe |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Gly | Lys | Trp | Tyr | Val | Val | Gly | Leu | Ala | Xaa | Asn | Ala | Ile | Leu | Arg |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asp | Lys | Asp | Pro | Gln | Lys | Met | Tyr | Ala | Thr | Ile | Tyr | Glu | Leu | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asp | Xaa | Ser | Tyr | Asn | Val | Thr | Ser | Val | Leu | Phe | Xaa | Lys | Lys | Lys |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Asp | Tyr | Trp | Ile | Xaa | Thr | Phe | Val | Pro | Xaa | Cys | Xaa | Pro | Gly | Glu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Thr | Leu | Gly | Asn | Ile | Xaa | Xaa | Tyr | Pro | Gly | Leu | Thr | Xaa | Tyr | Leu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Arg | Val | Val | Xaa | Thr | Thr | Thr | Thr | Ser | Met | Leu | Trp | Cys | Ser | Ser |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Phe | Leu | Xaa | Thr | Xaa | Asn | Ser | Ser | Xaa | Ser | Pro | Leu | Xaa | Lys |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Xaa | Glu | Leu | Asp | Phe | Arg | Asn | Leu | Lys | Glu | Lys | Leu | Pro | Pro | Pro |
| | | 130 | | | | 135 | | | | | 140 | | | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Asn | Ser | Pro | Gly | Pro | Pro |
| 145 | | | | | 150 | | |

<210> 6842

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

6064

<222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (97)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (98)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (102)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (108)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (113)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6842
 Trp Gly Met Ser Cys His Gly Leu Gly Arg Thr Glu Ser Asn Arg Thr
 1 5 10 15
 Leu Leu Leu Pro Trp Pro His Leu Val Gln His Arg Arg Pro Lys Pro
 20 25 30
 Gly Leu Ser Pro Leu Ser Pro Thr His Leu Ser Leu Pro Arg Lys Lys
 35 40 45
 Lys Cys Asp Tyr Trp Ile Arg Thr Phe Val Pro Xaa Cys Gln Pro Gly
 50 55 60
 Glu Phe Thr Leu Gly Asn Ile Xaa Ser Tyr Pro Gly Leu Thr Ser Tyr
 65 70 75 80
 Leu Val Arg Met Val Ser Thr Asn Tyr Asn Gln His Ala Met Val Phe
 85 90 95

6065

Xaa Xaa Lys Val Ser Xaa Asn Arg Glu Val Leu Xaa Glu His Leu Leu
100 105 110

Xaa Glu Asn Gln
115

<210> 6843
<211> 70
<212> PRT
<213> Homo sapiens

<400> 6843
Arg Thr Gly Arg Trp Gly Gln Glu Met Val Leu Leu Ser Thr Leu Gly
1 5 10 15

Ile Val Phe Gln Gly Glu Gly Pro Pro Ile Ser Ser Cys Asp Thr Gly
20 25 30

Thr Met Ala Asn Cys Glu Arg Thr Phe Ile Ala Ile Lys Pro Asp Gly
35 40 45

Val Gln Arg Gly Leu Val Gly Glu Ile Ile Lys Arg Phe Glu Gln Lys
50 55 60

Gly Ser Ala Leu Leu Val
65 70

<210> 6844
<211> 138
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

6066

<400> 6844

Leu Glu Ala Leu Phe Ser Asp Val Asn Met Gln Glu Tyr Pro Asp Leu
 1 5 10 15

Ile His Ile Tyr Lys Gly Phe Glu Asn Val Ile His Asp Lys Leu Pro
 20 25 30

Leu Gln Glu Ser Glu Glu Glu Glu Arg Glu Glu Arg Ser Gly Leu Gln
 35 40 45

Leu Ser Leu Glu Gln Gly Thr Gly Glu Asn Ser Phe Arg Ser Leu Thr
 50 55 60

Trp Pro Pro Ser Gly Ser Pro Ser His Ala Gly Thr Thr Pro Pro Glu
 65 70 75 80

Asn Gly Leu Ser Glu His Pro Cys Glu Thr Glu Gln Ile Asn Ala Lys
 85 90 95

Arg Lys Asp Thr Thr Ser Asp Lys Asp Asp Ser Leu Gly Ser Gln Gln
 100 105 110

Thr Asn Glu Gln Cys Ala Gln Lys Ala Xaa Pro Thr Glu Val Cys Glu
 115 120 125

Pro Ile Xaa Xaa Pro Ser Glu Ile Trp Gly
 130 135

<210> 6845

<211> 133

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6845

Val His Leu Thr Lys Gly Xaa Lys Ala Gly Ala Pro Pro Arg Cys Gly
 1 5 10 15

Arg Ser Arg Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Asp

6067

| | | | | | |
|---|-----|----|-----|----|-------|
| | 20 | | 25 | | 30 |
| Ser Val Leu Arg Gly Cys Ser Leu Glu Gln Arg Ser Phe Ile Ser Val | | | | | |
| | 35 | | 40 | | 45 |
| Arg Leu Leu Ser Tyr Leu Ser Ala Cys Arg His Pro Met Glu Asp Ser | | | | | |
| | 50 | | 55 | | 60 |
| Met Asp Met Asp Met Ser Pro Leu Arg Pro Gln Asn Tyr Leu Phe Gly | | | | | |
| | 65 | | 70 | | 75 80 |
| Cys Glu Leu Lys Ala Asp Lys Asp Tyr His Phe Lys Val Asp Asn Asp | | | | | |
| | | 85 | | 90 | 95 |
| Glu Asn Glu His Gln Leu Ser Leu Arg Thr Val Ser Leu Gly Ala Gly | | | | | |
| | 100 | | 105 | | 110 |
| Ala Lys Asp Glu Leu His Ile Val Glu Ala Glu Ala Met Asn Tyr Xaa | | | | | |
| | 115 | | 120 | | 125 |
| Gly Ser Pro Leu Lys | | | | | |
| | 130 | | | | |

<210> 6846

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6846

| | | | | | |
|---|----|---|----|----|-------|
| Glu Lys Ser Arg Glu His Glu Ile Asp Gly Arg Ser Ile Ser Leu Tyr | | | | | |
| 1 | | 5 | | 10 | 15 |
| Tyr Thr Gly Glu Lys Gly Gln Asn Gln Asp Tyr Arg Gly Gly Lys Asn | | | | | |
| | 20 | | 25 | | 30 |
| Ser Thr Trp Ser Gly Glu Ser Lys Thr Leu Val Leu Ser Asn Leu Ser | | | | | |
| | 35 | | 40 | | 45 |
| Tyr Ser Ala Thr Glu Glu Thr Leu Gln Glu Val Phe Glu Lys Ala Thr | | | | | |
| | 50 | | 55 | | 60 |
| Phe Ile Lys Val Pro Gln Asn Gln Asn Gly Lys Ser Lys Gly Tyr Ala | | | | | |
| | 65 | | 70 | | 75 80 |

6068

Phe Ile Glu Phe Ala Ser Phe Glu Asp Ala Lys Glu Ala Leu Asn Ser
 85 90 95
 Cys Asn Lys Arg Glu Ile Glu Gly Arg Ala Ile Arg Leu Glu Leu Gln
 100 105 110
 Gly Pro Arg Gly Ser Pro Asn Ala Arg Ser Gln Pro Ser Lys Thr Leu
 115 120 125
 Phe Val Lys Gly Leu Ser Glu Asp Thr Thr Glu Glu Thr Leu Xaa Gly
 130 135 140
 Val Ile
 145

<210> 6847

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

6069

<220>
 <221> SITE
 <222> (98)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (102)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6847
 Ser Gly Ser Xaa Phe Trp Lys Ala Leu Thr Phe Met Ala Val Gly Gly
 1 5 10 15
 Gly Leu Ala Val Ala Gly Leu Pro Ala Leu Gly Phe Thr Gly Ala Gly
 20 25 30
 Ile Ala Ala Asn Ser Val Ala Ala Ser Leu Met Xaa Trp Ser Ala Ile
 35 40 45
 Leu Asn Gly Gly Gly Val Pro Ala Gly Gly Leu Val Ala Thr Leu Gln
 50 55 60
 Ser Leu Gly Ala Gly Gly Ser Lys Val Xaa Ile Xaa Asn Ile Gly Ala
 65 70 75 80
 Leu Met Gly Tyr Ala Thr His Xaa Tyr Leu Asp Ser Glu Glu Asp Xaa
 85 90 95
 Glu Xaa Pro Ala Ala Xaa Xaa Thr Ser Ser Ser Phe Leu Ala
 100 105 110

<210> 6848
 <211> 87
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

6070

<221> SITE
 <222> (59)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (80)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6848
 His Leu Cys Ala Glu Ser Asp Ser Val Leu Arg Val Thr Arg Arg Gly
 1 5 10 15

 Glu Gln Ala Asp His Phe Thr Gln Thr Pro Leu Xaa Pro Gly Ser Gln
 20 25 30

 Val Leu Val Arg Val Asp Trp Glu Arg Arg Phe Asp His Met Gln Gln
 35 40 45

 His Ser Gly Gln His Leu Ile Thr Ala Val Xaa Asp His Leu Phe Lys
 50 55 60

 Leu Lys Thr Thr Ser Xaa Glu Leu Gly Arg Phe Arg Ser Ala Ile Xaa
 65 70 75 80

 Leu Asp Thr Pro Ser Met Thr
 85

 <210> 6849
 <211> 122
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6849

6071

Asn Pro Ala Leu Glu Leu Lys Arg Ala Thr Trp Leu Asn Ala Glu Lys
 1 5 10 15
 Asn Gly Gln Arg Pro Lys Thr Gln Leu Leu Pro Gln Lys Thr Thr Cys
 20 25 30
 Gln Lys Ile Pro Arg Asn Asn Arg Leu Met Tyr Ile His Ser Tyr Gln
 35 40 45
 Ser Tyr Val Trp Asn Asn Met Val Ser Lys Arg Ile Glu Asp Tyr Gly
 50 55 60
 Leu Asn Leu Phe Gln Gly Thr Ser Xaa Ser Lys Asp Pro Ser Pro Tyr
 65 70 75 80
 Ile Glu Glu Asp Asp Val Ile Ile Thr Leu Xaa Met Met Trp Glu Cys
 85 90 95
 Leu Ala Trp Phe Arg Trp Tyr Leu Pro Gln Ala Leu Lys Phe Lys Lys
 100 105 110
 Pro Thr Gly Lys Cys Ser Gln Leu Thr Ile
 115 120

<210> 6850

<211> 81

<212> PRT

<213> Homo sapiens

<400> 6850

Cys Thr Ile Cys Thr Ala Thr Ser Arg Val Gly Val Ile Gly Ile Gly
 1 5 10 15
 Gly Leu Gly His Ile Ala Ile Lys Leu Leu His Ala Met Gly Cys Glu
 20 25 30
 Val Thr Ala Phe Ser Ser Asn Pro Ala Lys Glu Gln Glu Val Leu Ala
 35 40 45
 Met Gly Ala Asp Lys Val Val Asn Ser Arg Asp Pro Gln Ala Leu Lys
 50 55 60
 Ala Leu Ala Gly Gln Phe Asp Leu Ile Ile Asn Thr Val Asn Val Ser
 65 70 75 80
 Leu

6072

<210> 6851

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6851

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Xaa | Xaa | Thr | Glu | Asn | Cys | Lys | Ile | Leu | Met | Thr | Lys | Ile | Lys | Glu |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Asn | Lys | Trp | Arg | Asn | Ile | Pro | Cys | Ser | Trp | Ile | Gly | Arg | Leu |
| | | | 20 | | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Leu | Asn | Cys | His | Phe | Ser | Pro | Asp | Gly | Ser | Thr | Glu | Ser | Thr |
| | | 35 | | | | | 40 | | | | | 45 | | | |

<210> 6852

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

6073

<400> 6852

Ala Ala Ala Ala Ala Arg Arg Asp Ala Ala Glu Val Phe Leu Val Ser
 1 5 10 15

Asp Pro Ser Gly Arg Met Val Lys Ser Ser Leu Gln Arg Ile Leu Asn
 20 25 30

Ser His Cys Phe Ala Arg Glu Lys Glu Gly Asp Lys Pro Ser Ala Thr
 35 40 45

Ile His Ala Xaa Arg Thr Met Pro Leu Leu Ser Leu His Xaa Pro Xaa
 50 55 60

<210> 6853

<211> 106

<212> PRT

<213> Homo sapiens

<400> 6853

Lys Gln Ser Pro Glu Leu Val Lys Lys His Lys Lys Lys Arg Val Val
 1 5 10 15

Pro Lys Lys Pro Pro Pro Ser Pro Gln Pro Thr Gly Lys Ile Glu Ile
 20 25 30

Lys Ile Val Arg Pro Trp Ala Glu Gly Thr Glu Glu Gly Ala Arg Trp
 35 40 45

Leu Thr Asp Glu Asp Thr Arg Asn Leu Lys Glu Ile Phe Phe Asn Ile
 50 55 60

Leu Val Pro Gly Ala Glu Glu Ala Gln Lys Glu Arg Gln Arg Gln Lys
 65 70 75 80

Glu Leu Glu Ser Asn Tyr Arg Arg Val Trp Gly Ser Pro Gly Gly Glu
 85 90 95

Gly Thr Gly Asp Leu Asp Glu Phe Asp Phe
 100 105

<210> 6854

<211> 44

<212> PRT

<213> Homo sapiens

6074

<400> 6854

Asn Arg Leu Phe Arg Lys Ser Cys Thr Ser Leu Lys Phe Leu Thr Phe
 1 5 10 15

Thr Cys Phe Phe Gln Ser Tyr Leu Tyr Gln Ile Leu Gln Gly Ile Val
 20 25 30

Phe Cys His Ser Arg Arg Val Leu His Arg Asp Leu
 35 40

<210> 6855

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6855

Ala Arg Ala Glu Phe Gly Thr Ser Gly Thr Ser Lys Gly Ser Cys Phe
 1 5 10 15

His Arg Ile Ile Pro Gly Phe Met Cys Gln Gly Gly Asp Phe Thr Arg
 20 25 30

His Asn Gly Thr Gly Gly Lys Ser Ile Tyr Gly Glu Lys Phe Glu Asp
 35 40 45

Xaa Asn Phe Ile Leu Lys His Thr Gly Pro Gly Ile Leu Ser Met Ala
 50 55 60

Asn Ala Gly Pro Asn Thr Asn Gly Ser Gln Phe Phe Ile Cys Thr Ala
 65 70 75 80

Gln Asp

<210> 6856

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

6075

<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6856
Val Asn Ser Leu Pro Gly Ser Pro Asp Leu Val Asp Tyr Thr Leu Ser
1 5 10 15
Xaa Pro Ala Arg Ala Xaa Xaa Thr Xaa Arg Thr Arg Gly Gly Thr His
20 25 30

<210> 6857
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6857

6076

Ile Gly Gly Xaa Ile Pro Ala Gly Pro Gln Cys Thr Leu Val Ser Arg
 1 5 10 15
 Ala Pro Gln Thr Leu Lys Met Asp Glu Leu Leu Ala Glu Met Gln Gln
 20 25 30
 Thr Xaa Glu Ser Asn Phe Leu Gln Ala Pro Gln Arg Ala Pro Gly Val
 35 40 45
 Xaa Asp Leu Ala Leu Ser Glu Asn Trp Ala Gln Ser Asp Leu Gln Leu
 50 55 60
 Glu Met Leu Trp Met
 65

<210> 6858

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6858

Leu Trp Arg Val Trp Gly Ala Glu Pro Arg Ala Pro Val Gly Pro Leu
 1 5 10 15

Leu Trp Arg Trp Ala Gln Pro Gly Ala Ala Ser Phe Glu Gly Arg Arg
 20 25 30

Asp Leu Phe Lys Gly Val Glu Thr Gly Arg Lys Arg Pro Arg Leu Gly
 35 40 45

Phe Gln Gly Ala Gly Asn Val Asn Arg Arg Leu Ala Cys Pro Leu Thr
 50 55 60

Val Ala Pro Ser Ser Pro Arg Lys Met Phe Ser Ser Val Ala His Leu

6077

| | | | | | | |
|---|-----|----|-----|----|-----|----|
| 65 | | 70 | | 75 | | 80 |
| Ala Arg Ala Asn Pro Phe Asn Thr Pro His Leu Gln Leu Val His Asp | | | | | | |
| | 85 | | 90 | | 95 | |
| Gly Leu Gly Asp Leu Arg Ser Xaa Xaa Pro Gly Pro Thr Gly Xaa Pro | | | | | | |
| | 100 | | 105 | | 110 | |
| Arg Arg Leu Ala Thr Cys Ser Arg Arg Arg Gly Arg Val Gln Leu | | | | | | |
| | 115 | | 120 | | 125 | |

<210> 6859

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

6078

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6859

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Arg | His | Xaa | Val | Lys | Arg | Gly | Leu | Val | Leu | Arg | Asn | Glu | Lys | Cys |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Glu | Asn | Tyr | Thr | Thr | Asp | Phe | Ile | Phe | Asn | Leu | Tyr | Ser | Glu | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Gly | Ile | Phe | Asp | Ser | Arg | Xaa | Asn | Val | Leu | Gly | His | Met | Gln |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Gly | Gly | Ser | Pro | Thr | Pro | Phe | Asp | Arg | Asn | Phe | Ala | Thr | Lys | Met |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Lys | Ala | Met | Asn | Trp | Xaa | Ser | Gly | Lys | Ile | Lys | Lys | Asn | Tyr |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Asn | Gly | Arg | Ile | Phe | Ala | Xaa | Thr | Pro | Xaa | Pro | Ala | Leu | Phe | Leu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Tyr | Leu | Lys | Xaa | Leu | Val | Phe | Xaa | Gln | Trp | Leu | Thr | Glu | Arg | Gln |
| | | 100 | | | | | | 105 | | | | | 110 | | |

Xaa

<210> 6860

<211> 70

<212> PRT

<213> Homo sapiens

<400> 6860

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Arg | Gly | Lys | Ile | Gln | Val | Ser | Thr | Asp | Phe | Ala | Met | Gln | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Leu | Leu | Gln | Met | Gly | Leu | His | Val | Leu | Ala | Val | Asn | Gly | Met | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Arg | Glu | Ala | Arg | Ser | Tyr | Ile | Leu | Arg | Cys | His | Gly | Cys | Phe | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Thr | Ser | Asp | Met | Ser | Arg | Val | Phe | Cys | Ser | His | Cys | Gly | Asn | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

6079

Thr Leu Lys Lys Cys Pro
65 70

<210> 6861

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6861

Val Ala Pro Thr Gly Pro Met Ala Ala Pro Gly Ala Pro Ala Glu Tyr
1 5 10 15

Gly Tyr Ile Arg Thr Val Leu Gly Gln Gln Ile Leu Gly Gln Leu Asp
20 25 30

Ser Ser Ser Leu Ala Leu Pro Ser Glu Ala Lys Leu Lys Leu Ala Gly
35 40 45

Ser Ser Gly Arg Gly Gly Gln Thr Val Lys Ser Leu Arg Ile Gln Glu
50 55 60

Gln Val Gln Gln Thr Leu Xaa Arg Lys Ala Ala Ala Pro Trp Ala Thr
65 70 75 80

Glu Ile Phe Thr Glu Pro Ala Val Phe
85

<210> 6862

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

6080

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6862
Ser Xaa Arg Phe Gly Thr Arg Arg Gly Ser Ser His Leu Ser Gln Trp
1 5 10 15
Leu Asn Asn Xaa Phe Ala Leu Pro Phe Ser Xaa Met Ala Ser Xaa Leu

6081

20 25 30
 Asp Met Ser Xaa Val Val Gly Ala Gly Xaa Lys His Thr Pro Asp Ser
 35 40 45
 Xaa Asn Lys Cys Ser Xaa Trp Gly Leu Cys His Lys Leu His Arg Ser
 50 55 60
 Leu Ser Ser Pro Xaa Ala Ser Gly Lys Xaa Leu Gln Leu His Ser His
 65 70 75 80
 His Pro Val Pro Gln Lys Arg Xaa Pro Ile
 85 90

<210> 6863

<211> 138

<212> PRT

<213> Homo sapiens

<400> 6863

Ser Asp Ser Asp Lys Glu Trp Ile Ala Ala Leu Arg Arg Lys Tyr Arg
 1 5 10 15
 Ser Arg Glu Gln Thr Leu Ser Ser Ser Gly Glu Ser Trp Glu Thr Leu
 20 25 30
 Pro Gly Lys Glu Glu Arg Glu Pro Pro Gln Ala Lys Val Ser Ala Ser
 35 40 45
 Thr Gly Thr Ser Pro Gly Pro Gly Ala Ser Ala Ser Ala Gly Ala Gly
 50 55 60
 Ala Gly Ala Asn Ala Gly Ser Asn Gly Ser Asn Tyr Leu Glu Glu Val
 65 70 75 80
 Arg Glu Pro Ser Leu Gln Glu Glu Gln Ala Ser Leu Glu Glu Gly Glu
 85 90 95
 Ile Pro Trp Leu Gln Tyr His Glu Asn Asp Ser Ser Ser Glu Gly Asp
 100 105 110
 Asn Asp Ser Gly His Glu Leu Met Gln Pro Gly Val Phe Met Leu Asp
 115 120 125
 Gly Asn Thr Thr Leu Lys Met Thr Ser Val
 130 135

6082

<210> 6864

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6864

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Phe | Xaa | Gln | Phe | Asn | Gly | Lys | Arg | Cys | Thr | Asp | Ala | Val | Gly | Asp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Gln | Cys | Val | Pro | Thr | Glu | Pro | Cys | Glu | Asp | Ala | Glu | Asp | Asp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Gly | Asn | Asp | Phe | Gln | Cys | Ser | Thr | Gly | Arg | Cys | Ile | Lys | Met | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Arg | Cys | Asn | Gly | Asp | Asn | Asp | Cys | Gly | Asp | Phe | Ser | Asp | Glu | Asp |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Cys | Glu | Ser | Glu | Pro | Arg | Pro | Pro | Cys | Arg | Asp | Arg | Val | Val | Glu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ser | Glu | Leu | Ala | Leu | Thr | Ala | Gly | Tyr | Gly | Ile | Asn | Ile | Leu | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asp | Pro | Leu | Ser | Thr | Pro | Phe | Asp | Asn | Glu | Phe | Tyr | Asn | Gly | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Asn | Arg | Asp | Arg | Asp | Gly | Asn | Thr | Leu | Thr | Tyr | Tyr | Arg | Arg | Pro |
| | 115 | | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Asn | Val | Ala | Ser | Leu | Ile | Tyr | Glu | Thr | Lys | Gly | Glu | Lys | Asn | Phe |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

6083

130 135 140
 Xaa Thr Glu His Ser Xaa Asn Lys Leu Xaa His Leu Lys Val Ser
 145 150 155

 <210> 6865
 <211> 86
 <212> PRT
 <213> Homo sapiens

 <400> 6865
 Lys Asn Ser Ser Glu Gly Asn Lys His His Lys Ser Thr Pro Leu Leu
 1 5 10 15

 Ile His Cys Arg Asp Gly Ser Gln Gln Thr Gly Ile Phe Cys Ala Leu
 20 25 30

 Leu Asn Leu Leu Glu Ser Ala Glu Thr Glu Glu Val Val Asp Ile Phe
 35 40 45

 Gln Val Val Lys Ala Leu Arg Lys Ala Arg Pro Gly Met Val Ser Thr
 50 55 60

 Phe Glu Gln Tyr Gln Phe Leu Tyr Asp Arg His Cys Gln His Leu Pro
 65 70 75 80

 Cys Ser Glu Trp Thr Arg
 85

<210> 6866
 <211> 53
 <212> PRT
 <213> Homo sapiens

 <400> 6866
 Ile Arg Val Asn Ala Val Asn Pro Thr Val Val Met Thr Ser Met Gly
 1 5 10 15

 Gln Ala Thr Trp Ser Asp Pro His Lys Ala Lys Thr Met Leu Asn Arg
 20 25 30

 Ile Pro Leu Gly Lys Phe Ala Glu Val Glu His Val Val Asn Gly Ile
 35 40 45

 Leu Phe Leu Leu Ser
 50

6084

<210> 6867
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6867
Thr Met Xaa Phe Phe Lys Ile Leu Arg Gly Gln Asp His Cys Gly Xaa
1 5 10 15
Glu Ser Glu Val Val Ala Gly Ile Pro Arg Thr Asp Gln Tyr Trp Glu
20 25 30

Lys Ile

<210> 6868
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

6085

<222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (57)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6868
 His Ile Xaa Ala Pro Ala Ala Xaa Pro Lys Ala Thr Pro Ile Thr Thr
 1 5 10 15

 Pro Trp Pro Gly Gly Asn Ala Tyr Ile Asp Asn Leu Xaa Ala Asp Gly
 20 25 30

 Asp Leu Xaa Glu Arg Gly Ile Val Ala Thr Arg Thr Arg Xaa Pro Ser
 35 40 45

 Gly Arg Xaa Pro Arg Xaa Thr Xaa Xaa Xaa Leu Thr Gln Ala Glu Val
 50 55 60

 Val Ser Trp Leu Ala Lys Thr Gly Lys Phe Tyr Phe Asn Gly
 65 70 75

6086

<210> 6869

<211> 86

<212> PRT

<213> Homo sapiens

<400> 6869

Lys Arg Gly His Tyr Gly Val Gln Arg Thr Glu Leu Leu Pro Gly Asp
1 5 10 15

Arg Asp Asn Leu Ala Ile Gln Thr Arg Gly Gly Pro Glu Lys His Glu
20 25 30

Val Thr Gly Trp Val Leu Val Ser Pro Leu Ser Lys Glu Asp Ala Gly
35 40 45

Glu Tyr Glu Cys His Ala Ser Asn Ser Gln Gly Gln Ala Ser Ala Ser
50 55 60

Ala Lys Ile Thr Val Val Asp Ala Leu His Glu Ile Pro Val Lys Lys
65 70 75 80

Gly Glu Gly Ala Glu Leu
85

<210> 6870

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

6087

<220>
 <221> SITE
 <222> (150)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (154)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6870
 Asp Arg Glu Gln Lys Ser Tyr Arg Gly His Ser Lys Gln Gln His His
 1 5 10 15
 Val Thr Thr Lys Asp Leu His Leu Lys Leu Asn Thr Glu Cys Ser Ile
 20 25 30
 Ser Thr Asp Ser Lys Gly Phe Pro Lys Asn Ile Thr Asn Asn Arg Gly
 35 40 45
 Lys Lys Arg Tyr Pro Asp Ser Lys Asp Leu Thr Met Val Leu Lys Thr
 50 55 60
 Tyr Asp Thr Ser Phe Leu Asp Phe Leu Gln Lys Val Phe Gly Met Gly
 65 70 75 80
 Asn Leu Ser Leu Ser His Gly Pro Arg Asp Gln Ala Leu Gln Ala Trp
 85 90 95
 Leu Gly Ile Pro Ser Val Phe Gly Asn Leu Gln Ala Thr Ala Gln Ala
 100 105 110
 Pro Asp Pro Gly Gly Xaa Ser Xaa Phe Leu Phe Xaa Pro Leu Gly Asp
 115 120 125
 Lys Gly Arg Asp Lys Val Ser Arg Val Val Ile His Ser Glu Gln Xaa
 130 135 140
 Arg Gln Met Glu Ile Xaa Pro Lys Gly Xaa Pro Gly Glu Thr Lys
 145 150 155

<210> 6871
 <211> 103
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)

6088

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6871

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Trp | Gly | Ile | Ser | Pro | Arg | Gly | Ala | Gly | Tyr | Thr | Phe | Gly | Gln |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |
| Asp | Ile | Ser | Glu | Thr | Phe | Asn | His | Ala | Asn | Gly | Leu | Thr | Leu | Val | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Arg | Ala | His | Gln | Leu | Val | Met | Glu | Gly | Tyr | Asn | Trp | Cys | His | Asp | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Asn | Val | Val | Thr | Ile | Phe | Ser | Ala | Pro | Asn | Tyr | Cys | Tyr | Arg | Cys | Gly |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asn | Gln | Ala | Ala | Ile | Met | Glu | Leu | Asp | Asp | Thr | Leu | Lys | Tyr | Ser | Phe |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Leu | Gln | Phe | Asp | Pro | Ala | Pro | Arg | Arg | Gly | Glu | Pro | His | Val | Thr | Arg |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Xaa | Thr | Pro | Asp | Tyr | Phe | Leu | | | | | | | | | |
| | | | 100 | | | | | | | | | | | | |

<210> 6872

<211> 64

<212> PRT

<213> Homo sapiens

<400> 6872

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ile | Ala | Ala | Cys | Leu | Leu | Leu | Tyr | Leu | Ser | Asp | Thr | Ile | Ser | Pro |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |
| Glu | Gln | Ala | Ile | Asp | Ser | Leu | Arg | Asp | Leu | Arg | Gly | Ser | Gly | Ala | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Gln | Thr | Ile | Lys | Gln | Tyr | Asn | Tyr | Leu | His | Glu | Phe | Arg | Asp | Lys | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Ala | Ala | His | Leu | Ser | Ser | Arg | Asp | Ser | Gln | Ser | Arg | Ser | Val | Ser | Arg |
| | | 50 | | | | 55 | | | | | 60 | | | | |

6089

<210> 6873

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6873

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Thr | His | Gln | Ile | Arg | Val | Leu | Arg | Leu | Thr | Trp | Val | Leu | Val | Trp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Val | Leu | Leu | Val | Gln | Trp | Glu | Arg | Val | Leu | Lys | Val | Phe | His | Tyr |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Glu | Ser | Asn | Ser | Glu | Pro | Thr | Thr | Trp | Ala | Ser | Ile | Xaa | Arg | His |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asp | Ala | Thr | Asp | Val | Arg | Gly | Ile | Ile | Gln | Lys | Ile | Val | Asp | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Lys | Xaa | Lys | His | Cys | Gly | Leu | Leu | Trp | Ile | Pro | Ala | Ser | Val | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Xaa | Gln | Xaa | Glu | Gly | Ser | Leu | Xaa | Ser |
| | | | | 85 | | | | | 90 |

6090

<210> 6874

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6874

Arg Ser Phe Gln Glu Tyr Met Ala Gln Met Glu Lys Lys Leu Glu Glu
 1 5 10 15

Glu Arg Glu Asn Leu Leu Arg Glu His Glu Arg Leu Leu Lys His Lys
 20 25 30

Leu Lys Val Gln Glu Glu Met Leu Lys Glu Glu Phe Gln Lys Lys Ser
 35 40 45

Glu Gln Xaa Asn Lys Glu Ile Asn Gln Leu Lys Glu Lys Ile Glu Ser
 50 55 60

Thr Lys Asn Glu Gln Val Lys Ala Leu Lys Asp Pro
 65 70 75

<210> 6875

<211> 53

<212> PRT

<213> Homo sapiens

<400> 6875

Pro Arg Val Arg Leu Gly Phe Phe Glu Gly Ser Val Leu Phe Pro Glu
 1 5 10 15

Pro Leu Thr Trp Met Asp Lys Leu Val Val Glu Tyr Ala Asn Ala Ile
 20 25 30

Cys Gln Trp Glu Arg Asn Lys Leu Gln Cys Ser Asp Thr Glu Gln Val
 35 40 45

Glu Ala Asp Leu Glu
 50

6091

<210> 6876

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6876

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Pro | Ala | Gln | Xaa | Phe | Lys | Phe | Pro | Gly | Arg | Gln | Lys | Ile | His |
| 1 | | | | 5 | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ser | Lys | Lys | Trp | Gly | Phe | Thr | Lys | Phe | Asn | Ala | Asp | Glu | Phe | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Met | Val | Ala | Glu | Lys | Arg | Xaa | Ala | Ser | Gln | Met | Ala | Val | Gly | Ser |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Ser | Pro | Val | Val | Gly | Pro | Leu | Gly | Gln | Val | Ala | Gly | Pro | Ala |
| | | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | His | Gly | Gly | Leu | Ser | Asn | Val | Leu | Ala | Pro | Leu | Leu | Asn | Thr | Ser |
| 65 | | | | | | 70 | | | | 75 | | | | | 80 |

Pro Ile Lys Phe

<210> 6877

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

6092

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6877

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Xaa | Ser | Glu | Leu | Tyr | Val | Arg | Pro | Asp | Asp | Val | His | Val | Asn | Ile |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Val | Glu | Leu | Tyr | Arg | Ser | Thr | Lys | Arg | Leu | Lys | Asp | Ala | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | His | Cys | His | Glu | Ala | Arg | Arg | Asn | Ile | Ala | Leu | Xaa | Xaa | Lys | Phe |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Val | Glu | Phe | Val | Cys | Cys | Thr | Asp | Pro |
| | 50 | | | | | 55 | | | |

<210> 6878

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6878

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gly | Val | Asp | Ser | Gly | Gly | Ala | Ala | Arg | Arg | Asp | Met | Arg | Leu | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Phe | Arg | Val | Leu | Thr | Val | Leu | Ser | Ile | Cys | Leu | Ser | Ala | Val | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Thr | Gly | Ala | Glu | Gly | Lys | Arg | Lys | Leu | Gln | Ile | Gly | Val | Lys |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Arg | Val | Asp | His | Cys | Pro | Ile | Lys | Ser | Arg | Lys | Gly | Asp | Val | Leu |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Met | His | Tyr | Thr | Gly | Lys | Leu | Glu | Xaa | Gly | Thr | Xaa | Phe | Asp | Ser |
| 65 | | | | | | 70 | | | | 75 | | | | | 80 |

6093

Ser Leu Pro

<210> 6879

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6094

<221> SITE
 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (59)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (63)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6879
 Gly Arg Asp Pro Val Arg Ala Pro Ala Pro Ser Asn Xaa Gly Gly Pro
 1 5 10 15

 Glu Pro Xaa Trp Arg Ser Pro Xaa Pro Leu Ser Ala Ser Leu His Xaa
 20 25 30

 Thr Ser Pro His Pro Xaa Gly Leu Trp Thr Thr Thr Xaa Xaa Arg Ala
 35 40 45

 Xaa Ala Gly Arg Gly Gly Ala Xaa Gly Pro Xaa Gly Pro Xaa Xaa Gly
 50 55 60

 Xaa Lys Ile Cys Gln Phe Lys Leu Xaa Leu Leu Gly Glu Ser Ser Val
 65 70 75 80

 Gly Lys Ser Ser Leu Val Leu Arg Phe Phe Lys Gly Gln Phe Tyr Xaa

6095

85

90

95

Tyr His Glu Ser Thr Ile
100

<210> 6880

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6880

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Glu | Met | Leu | Leu | Ala | Ala | Trp | Gly | Lys | Ser | Ser | Leu | Thr | Ile |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Phe | Val | Glu | Gly | Gln | Phe | Val | Asp | Ser | Tyr | Asp | Pro | Thr | Ile | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Thr | Phe | Thr | Lys | Leu | Ile | Thr | Val | Lys | Trp | Thr | Xaa | Leu | Ser | Cys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Thr | Cys | Arg | His | Ser | Arg | Ala | Lys | Met | Asn | Ile | Leu | Ser | Phe | Pro |
| | | 50 | | | | 55 | | | | | 60 | | | | |

Ser Gly His Thr Pro
65

<210> 6881

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6096

<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6881
Thr Leu Arg Pro Thr Gln Thr Xaa Asn Xaa Tyr Tyr Cys Ala Arg His
1 5 10 15
Thr Asn Gln Xaa His Pro Xaa Tyr Arg Met Lys Arg Trp Ile Asp Pro
20 25 30
Trp Gly Xaa Gly Thr Xaa Val Thr Asp Xaa Ser
35 40

<210> 6882
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

6097

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6882

Arg Arg Ile Lys Asp Phe Leu Leu Thr Ala Arg Arg Lys Asp Ala Lys
1 5 10 15

Ser Val Lys Ile Lys Lys Asn Lys Asp Asn Val Lys Phe Lys Val Arg
20 25 30

Cys Ser Arg Tyr Leu Tyr Thr Leu Val Xaa Thr Asp Lys Glu Lys Ala
35 40 45

Xaa Lys Leu Lys Gln Ser Leu Pro Pro Arg Phe Ala Gln
50 55 60

<210> 6883

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6098

<221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (93)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (94)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (100)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6883
 Gln Asp Gln Gly Glu Lys Glu Asn Pro Met Arg Glu Leu Arg Ile Arg
 1 5 10 15
 Lys Leu Cys Xaa Asn Ile Cys Val Gly Glu Ser Gly Xaa Arg Leu Thr
 20 25 30
 Arg Ala Ala Lys Val Xaa Glu Gln Leu Thr Gly Gln Thr Xaa Val Xaa
 35 40 45
 Ser Lys Ala Arg Tyr Thr Val Arg Ser Phe Gly Ile Arg Arg Asn Glu
 50 55 60
 Lys Ile Ala Val His Cys Thr Val Leu Gly Ala Lys Ala Glu Glu Ile
 65 70 75 80
 Leu Glu Xaa Gly Leu Lys Val Arg Glu Tyr Xaa Leu Xaa Xaa Asn Asn
 85 90 95
 Phe Ser Asp Xaa Gly Asn Phe
 100

<210> 6884

<211> 102

<212> PRT

6099

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6884

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ala | Lys | Met | Thr | Asn | Thr | Lys | Gly | Lys | Arg | Arg | Gly | Thr | Arg | Tyr |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Phe | Ser | Arg | Pro | Phe | Xaa | Lys | His | Gly | Val | Val | Pro | Leu | Ala | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Met | Arg | Ile | Tyr | Lys | Lys | Gly | Asp | Ile | Val | His | Ile | Lys | Gly | Met |
| | | | 35 | | | | 40 | | | | | 45 | | | |

6100

Gly Thr Val Xaa Lys Gly Met Pro His Lys Cys Tyr His Gly Ile Thr
 50 55 60

Gly Xaa Val Tyr Xaa Val Thr Xaa Xaa Ala Val Gly Ile Val Val Asn
 65 70 75 80

Lys Gln Val Xaa Gly Lys Ile Leu Ala Lys Arg Ile Asn Val Arg Ile
 85 90 95

Glu His Ile Xaa His Ser
 100

<210> 6885

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6885

Xaa Pro Lys Ala Lys Lys Glu Ala Pro Ala Pro Pro Lys Ala Glu Ala
 1 5 10 15

Lys Ala Lys Ala Leu Lys Ala Lys Lys Ala Val Leu Lys Gly Val His
 20 25 30

Ser His Lys Lys Lys Lys Ile Arg Thr Ser Pro Thr Phe Arg Arg Pro
 35 40 45

Lys Thr Leu Arg Leu Arg Arg Gln Pro Lys Tyr Pro Arg Lys Ser Ala
 50 55 60

Pro Arg Arg Asn Lys Leu Asp His Tyr Ala Ile Ile Lys Phe Pro Leu
 65 70 75 80

Thr Thr Glu Ser Ala Met Lys Lys Ile Glu Asp Asn Asn Thr Leu Val
 85 90 95

Phe Ile Val Asp Val Lys Ala Asn Lys His Gln Ile Lys Gln Ala Val
 100 105 110

Lys Lys Leu Tyr Asp Ile Asp Val Ala Lys Val Asn Thr Leu Ile Arg
 115 120 125

Pro Asp Gly Glu Lys Lys Ala Tyr Val Arg Leu Ala Pro Asp Tyr Asp

6101

130

135

140

Ala Leu Asp Val Ala Asn Lys Ile Gly Ile Ile
145 150 155

<210> 6886

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6886

Asn Leu Gly Xaa Trp Cys Leu Ser Trp Leu Gly Arg Tyr Ser Gly Arg
1 5 10 15

Lys Xaa Val Ile Val Lys Xaa Xaa Asp Asp Gly Thr Ser Xaa Arg Pro
20 25 30

Tyr Ser His Ala Leu
35

<210> 6887

<211> 143

6102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6887

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ile | Thr | Pro | Phe | Leu | Ile | Arg | Leu | Xaa | Ile | Gly | Lys | Ala | Gly | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ala | Gly | Thr | Gly | Pro | Glu | Phe | Pro | Gly | Arg | Pro | Thr | Arg | Pro | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Ala | Glu | Gly | Ala | Ala | Ala | Met | Ser | Ala | His | Leu | Gln | Trp | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Val | Arg | Asn | Cys | Ser | Ser | Phe | Leu | Ile | Lys | Arg | Asn | Lys | Gln | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ser | Thr | Glu | Pro | Asn | Asn | Leu | Lys | Ala | Arg | Asn | Ser | Phe | Arg | Tyr |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Gly | Leu | Ile | His | Arg | Lys | Thr | Val | Gly | Trp | Ser | Arg | Gln | Pro | Thr |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ser | Ser | Gly | Gly | Ser | Leu | Thr | Glu | Ser | Gly | Thr | Glu | Pro | Ala | Thr |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Met | Cys | Asp | Thr | Ser | Thr | Asp | Val | Arg | Pro | Ser | His | Ser | Thr | Tyr |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Pro | Lys | His | Thr | Pro | Leu | Pro | Xaa | His | Xaa | Ala | Xaa | Ser | Pro | Gln | |
| | 130 | | | | | | 135 | | | | | 140 | | | |

6103

<210> 6888

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

6104

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6888

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Glu | Arg | Lys | Glu | Gly | Xaa | Arg | Xaa | Xaa | Xaa | Arg | Xaa | Phe | Xaa | His |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Arg | Met | Ile | Thr | Arg | Glu | Tyr | Xaa | Ile | Asn | Ile | His | Asn | Arg | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Xaa | Val | Gly | Phe | Lys | Xaa | Arg | Ala | Pro | Arg | Ala | Leu | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | |

<210> 6889

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6889

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Thr | Xaa | Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser | Thr |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Ala | Ala | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ala | Arg | Gly | Cys | Leu | Gln | Ala | Leu | Arg | Met | Val | Gln | Arg | Leu | Thr |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Arg | Arg | Arg | Leu | Ser | Tyr | Asn | Thr | Ala | Ser | Asn | Lys | Thr | Arg | Leu |
| | | | | | | 55 | | | | | 60 | | | | |

6105

Ser Arg Thr Pro Gly Asn Arg Ile Val Tyr Leu Tyr Thr Lys Lys Val
 65 70 75 80

Gly Lys Ala Pro Lys Ser Ala Cys Gly Val Cys Pro Gly Arg Leu Arg
 85 90 95

Gly Val Arg Ala Val Arg Pro Lys Val Leu Met Arg Leu Ser Lys Thr
 100 105 110

Lys Lys His Val Ser Arg Ala Tyr Gly Gly Ser Met Cys Ala Lys Cys
 115 120 125

Val Arg Asp Arg Ile Lys Arg Ala Phe Leu Ile Glu Glu Gln Lys Ile
 130 135 140

Val Val Lys Val Leu Lys Ala Gln Ala Gln Ser Gln Lys Ala Lys
 145 150 155

<210> 6890

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6890

Cys Thr Ala Thr Leu Gly Xaa Phe Ala Lys Ala Thr Phe Asp Ala Ile
 1 5 10 15

Ser Lys Thr Tyr Ser Tyr Leu Thr Pro Asp Leu Trp Lys Glu Thr Val
 20 25 30

Phe Thr Lys Ser Pro Tyr Gln Glu Phe Thr Asp His Leu Val Xaa Thr
 35 40 45

His Thr Arg Val Ser Val Gln Arg Thr Gln Ala Pro Ala Val Ala Thr
 50 55 60

Thr

65

6106

<210> 6891
 <211> 120
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6891
 Val Xaa Ala Ser Lys Met Thr Lys Lys Arg Arg Asn Asn Gly Arg Ala
 1 5 10 15
 Lys Lys Gly Arg Gly His Val Gln Pro Ile Arg Cys Thr Asn Cys Ala
 20 25 30
 Arg Cys Val Pro Lys Asp Lys Ala Ile Lys Lys Phe Val Ile Arg Asn
 35 40 45
 Ile Val Glu Ala Ala Ala Val Arg Asp Ile Ser Glu Ala Ser Val Phe
 50 55 60
 Asp Ala Tyr Val Leu Pro Lys Leu Tyr Val Lys Leu His Tyr Cys Val
 65 70 75 80
 Ser Cys Ala Ile His Ser Lys Val Val Arg Asn Arg Ser Arg Glu Ala
 85 90 95
 Arg Lys Asp Arg Thr Pro Pro Pro Arg Phe Arg Pro Ala Gly Ala Ala
 100 105 110
 Pro Arg Pro Pro Pro Lys Pro Met
 115 120
 ,

<210> 6892
 <211> 80
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

6107

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6892

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | His | His | Gln | Leu | Xaa | Trp | Asn | His | Pro | Arg | Xaa | Tyr | Gly | His | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Arg | Ser | Cys | Arg | Val | Cys | Ser | Asn | Arg | His | Gly | Leu | Ile | Arg | Lys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Gly | Leu | Asn | Met | Cys | Arg | Gln | Cys | Phe | Arg | Gln | Tyr | Ala | Lys | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Gly | Phe | Ile | Lys | Leu | Asp | Xaa | Met | Leu | Phe | Leu | His | Arg | Ile | Ile |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Gly | Ile | Tyr | Ser | Met | Lys | Asn | His | Asp | Asn | Ser | Leu | Tyr | Ile | Lys |
| 65 | | | | | | 70 | | | | 75 | | | | | 80 |

<210> 6893

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6893

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Glu | Ala | Phe | Ser | Cys | Phe | Lys | Met | Lys | Leu | Asn | Ile | Ser | Phe |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ala | Thr | Gly | Cys | Gln | Lys | Leu | Ile | Glu | Val | Asp | Asp | Glu | Arg | Lys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

6108

Leu Arg Thr Phe Tyr Glu Lys Arg Met Ala Thr Glu Val Ala Ala Asp
 35 40 45
 Ala Leu Gly Glu Glu Trp Lys Gly Tyr Val Val Arg Ile Xaa Gly Gly
 50 55 60
 Asn Asp Lys Gln Gly Phe Pro Met Lys Gln Gly Val Leu Thr His Gly
 65 70 75 80
 Arg Val Arg Cys Tyr
 85

<210> 6894

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6894

Phe Gly Arg Gly His Arg Thr Gln Lys Glu Ile Glu Gln Glu Ala Ala
 1 5 10 15
 Val Glu Leu Ser Gln Leu Arg Asp Pro Gln His Asp Leu Asp Arg Val
 20 25 30
 Lys Lys Pro Glu Trp Val Ile Leu Ile Gly Val Cys Thr Xaa Ser Trp
 35 40 45
 Ala Val Tyr Pro Leu Ala Asn Ala Gly Arg Ile Leu Val Val Ile Thr
 50 55 60
 Ala Leu Ala Met Gly His Thr Tyr Asp Ala Ser Gly Gln Asp Pro Asp
 65 70 75 80
 Trp Val Leu Leu Leu Phe Asn Leu Glu Val Pro His Gly Ile Glu Phe
 85 90 95
 His Gln

<210> 6895

<211> 40

<212> PRT

6109

<213> Homo sapiens

<400> 6895

```

Ser Ser Gly Leu Ser Ser Ala Ser Leu Ser Val Lys Ala Ile Lys Glu
 1             5             10             15

Ala Ile Asp Tyr Leu Thr Val Glu Gly His Ile Tyr Pro Thr Val Asp
          20             25             30

Arg Glu His Phe Lys Ser Ala Asp
      35             40

```

<210> 6896

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6896

```

Ala Gln Ala Ser Arg Ser Arg Trp Glu Leu Pro Pro Gly Ala Val Thr
 1             5             10             15

Met Thr Gly Glu Leu Glu Val Lys Asn Met Asp Met Lys Pro Gly Ser
          20             25             30

Thr Leu Lys Ile Thr Gly Xaa Ile Ala Asp Gly Thr Asp Gly Phe Val
      35             40             45

Ile Asn Leu Gly Gln Gly Thr Asp Lys Leu Asn Leu His Phe Asn Pro
      50             55             60

Arg Phe Ser Glu Ser Thr Ile Val Cys Asn Ser Leu Asp Gly Ser Asn
      65             70             75             80

Trp Gly Gln Glu Gln Arg Glu Asp His Leu Cys Phe Ser Pro Arg Ser
          85             90             95

Glu Val Lys Phe Thr Val Thr Phe
      100

```

<210> 6897

<211> 91

<212> PRT

6110

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6897

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Gln | Phe | Met | Gly | Met | Ile | Ile | Asp | Val | Phe | Ser | Arg | Tyr | Ser | Gly |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Glu | Gly | Ser | Thr | Gln | Thr | Leu | Thr | Lys | Gly | Glu | Leu | Lys | Val | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Lys | Glu | Leu | Pro | Gly | Phe | Leu | Gln | Ser | Gly | Lys | Asp | Lys | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Asp | Lys | Leu | Leu | Lys | Asp | Leu | Asp | Ala | Asn | Gly | Asp | Ala | Gln |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Asp | Phe | Ser | Glu | Phe | Ile | Val | Phe | Val | Ala | Ala | Ile | Thr | Ser | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | His | Lys | Tyr | Phe | Xaa | Lys | Ala | Gly | Leu | Lys |
| | | | | 85 | | | | | 90 | |

<210> 6898

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

6111

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

6112

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6898

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Ser | Gly | Asn | Phe | Lys | Gly | Met | Lys | Ile | Lys | Pro | Gly | Ser | Met |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Pro | Ser | Pro | Ala | Phe | Asp | Val | Lys | Xaa | Val | Asp | Val | Asn | Gly |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Val | Leu | Pro | Pro | Gly | Gln | Glu | Gly | Asp | Ile | Gly | Ile | Gln | Val | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asn | Arg | Pro | Phe | Gly | Leu | Phe | Thr | His | Tyr | Val | Asp | Asn | Pro | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Thr | Ala | Ser | Thr | Leu | Arg | Gly | Asn | Ser | Ile | Ser | Leu | Gly | Thr | Glu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Trp | Ile | Lys | Met | Gly | Ile | Ser | Xaa | Xaa | Phe | Ala | Xaa | Ala | Asp |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gly | Xaa | Tyr | Xaa | Leu | Val | Xaa | Asp | Leu | Ala | Pro | Leu | Gly | Gly | Lys |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Ile | Xaa | Thr | Pro | Xaa | Phe | Arg | Val | Pro | Phe | Phe | Lys | Xaa | Pro |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Pro | Ser | Arg | Gly | Xaa | Val | Lys | Val | Xaa | Gly | Phe | Lys | Thr | Xaa | Phe |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Xaa | Phe | Arg | Ala | Pro | Phe | Lys | Gly | Phe | Arg | Gly | Phe |
| 145 | | | | | 150 | | | | | 155 | | | |

<210> 6899

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

6113

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<220>
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6114

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6899

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Lys | Phe | Xaa | Val | Ala | Glu | Gly | Lys | Gln | Xaa | Glu | Ile | Gln | His | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Gln | Ala | Glu | Lys | Lys | Glu | Leu | Gln | His | Lys | Ile | Asp | Glu | Met | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Glu | Lys | Glu | Gln | Glu | Leu | Gln | Ala | Lys | Ile | Glu | Ala | Leu | Gln | Ala | Asp |
| | | | 35 | | | | 40 | | | | | 45 | | | |
| Asn | Asp | Phe | Thr | Asn | Glu | Arg | Leu | Thr | Ala | Leu | Gln | Glu | Lys | Leu | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Val | Glu | Xaa | His | Xaa | Thr | Lys | Ala | Val | Glu | Glu | Thr | Lys | Leu | Ser | Lys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Glu | Asn | Xaa | Thr | Xaa | Xaa | Lys | Glu | Ser | Asp | Phe | Ser | Asp | Thr | Leu | Xaa |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Pro | Xaa | Lys | Glu | Asn | Xaa | Lys | Xaa | Arg | Ala | Val | Ala | Leu | | | |
| | | | 100 | | | | | 105 | | | | | | | |

<210> 6900

<211> 92

<212> PRT

<213> Homo sapiens

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6115

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<220>
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<400> 6900
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 1 5 10 15
 Ser Ile Xaa Arg Val Leu Glu Met Thr Pro Gln Gln Gly Asp Val Tyr
 20 25 30
 Xaa Xaa Gln Val Glu His Thr Ser Leu Asp Ser Pro Val Thr Val Glu
 35 40 45
 Trp Lys Ala Gln Ser Asp Ser Ala Arg Ser Lys Thr Leu Thr Gly Ala
 50 55 60
 Gly Gly Phe Val Leu Gly Leu Ile Ile Cys Gly Val Gly Xaa Phe Met
 65 70 75 80
 His Arg Arg Asn Lys Lys Val Gln Arg Gly Ser Ala
 85 90

<210> 6901
 <211> 31
 <212> PRT
 <213> Homo sapiens

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 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6901
 Ile Arg Xaa Arg Asn Arg Gly Cys Cys Phe Asp Ser Arg Ile Pro Gly
 1 5 10 15
 Xaa Pro Trp Cys Phe Lys Pro Leu Gln Glu Ala Glu Cys Thr Phe

6116

20

25

30

<210> 6902

<211> 55

<212> PRT

<213> Homo sapiens

<400> 6902

Gly Thr Ala Thr Gln Gly Leu Ser Pro Val His Thr Pro Gly Asp Gly
 1 5 10 15

Arg Leu His Lys Ala Val Ser Val Gly Pro Arg Val His Ile Ile Glu
 20 25 30

Glu Leu Gln Ile Phe Ser Ser Gly Gln Pro Val Ala Glu Ser Ala Pro
 35 40 45

Gly Thr Pro Thr Gly Gly Leu
 50 55

<210> 6903

<211> 134

<212> PRT

<213> Homo sapiens

<220>

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<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6117

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6903

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Tyr | Gln | Pro | Glu | Asn | Pro | Tyr | Pro | Ala | Gln | Pro | Thr | Val | Val | Pro |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Val | Tyr | Xaa | Val | His | Pro | Ala | Gln | Tyr | Tyr | Pro | Ser | Pro | Val | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Tyr | Xaa | Pro | Arg | Val | Leu | Thr | Gln | Ala | Ser | Asn | Pro | Val | Val | Cys |
| | | 35 | | | | | 40 | | | | 45 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Ala | Lys | Ser | Pro | Ser | Gly | Thr | Val | Cys | Thr | Ser | Lys | Thr | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ala | Leu | Cys | Ile | Thr | Leu | Thr | Trp | Gly | Leu | Pro | Pro | Gly | Asn | Cys |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Arg | Trp | Pro | Thr | Leu | Glu | Ile | His | Gly | Gln | Gln | Met | Leu | Gln |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Trp | Asp | Arg | Met | Arg | Ile | Leu | Lys | Phe | Cys | Ile | Asn | Pro | Xaa | Thr |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Ile | Ala | Xaa | Gln | Leu | Pro | Xaa | Gly | Glu | Glu | Lys | Asn | Xaa | Cys |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Phe | Gln | Thr | Ser |
| | | 130 | | | |

<210> 6904

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

6118

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6904

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gln | Xaa | Ser | Leu | Xaa | Gly | Thr | Pro | Thr | Glu | Glu | Thr | Trp | Pro | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Thr | Arg | Ile | Ser | Glu | Xaa | Arg | Thr | Tyr | Ser | Phe | Pro | Cys | Tyr | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gln | Pro | Ala | His | Gln | Pro | Arg | Arg | Pro | Gly | Xaa | Ile | Arg | Met | Ala |
| | | 35 | | | | | 40 | | | | | | 45 | | |

| | | |
|-----|-----|-----|
| Ser | Thr | Ser |
| | 50 | |

<210> 6905

<211> 89

<212> PRT

<213> Homo sapiens

<400> 6905

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Gly | Asn | Val | Pro | Leu | His | Tyr | Ala | Cys | Phe | Trp | Gly | Gln | Asp | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Glu | Asp | Leu | Val | Ala | Asn | Gly | Ala | Leu | Val | Ser | Ile | Cys | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Tyr | Gly | Glu | Met | Pro | Val | Asp | Lys | Ala | Lys | Ala | Pro | Leu | Arg | Glu |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Arg | Glu | Arg | Ala | Glu | Lys | Met | Gly | Gln | Asn | Leu | Asn | Arg | Ile |
| | | | 50 | | | | 55 | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Tyr | Lys | Asp | Thr | Phe | Trp | Lys | Gly | Thr | Thr | Arg | Thr | Arg | Pro | Arg |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

6119

65

70

75

80

Glu Ser Pro Leu Trp Glu Glu Gly Leu
85

<210> 6906

<211> 111

<212> PRT

<213> Homo sapiens

<220>

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6120

<220>

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<222> (41)

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<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6906

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Ser | Xaa | Thr | Ile | Gly | Glu | Lys | Xaa | Xaa | Gln | Lys | Glu | Pro | Xaa | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asp | Xaa | Ser | Val | Pro | Glu | Asn | Val | Leu | Ser | Xaa | Asp | Asp | Leu | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asp | Ala | Leu | Ala | Asn | Leu | Xaa | Xaa | Pro | Gln | Ile | Lys | Lys | Val | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Ile | Asp | Glu | Ala | Ile | Leu | Lys | Cys | Asp | Ala | Glu | Gly | Xaa | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Glu | Ala | Glu | Arg | Phe | Glu | Asn | Leu | Arg | Glu | Ile | Gly | Asn | Leu | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Pro | Ser | Val | Pro | Ile | Ser | Asn | Asp | Glu | Val | Gly | Gly | Cys | Ala | Ala |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Gly | Cys | Leu | Arg | Ser | Leu | Leu | Ser | Leu | Gln | Gly | Arg | Gly |
| | | | 100 | | | | | 105 | | | | | 110 | |

<210> 6907

<211> 38

<212> PRT

<213> Homo sapiens

<220>

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<222> (5)

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<220>

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<220>

6121

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<220>

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<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6907

Cys Val Ala Gly Xaa Asp Glu Gln Ser Thr Gln Met Ala Ala Arg Xaa

1

5

10

15

Glu Asp Asp Lys Val Thr Glu Ala Ser Ser Asn Arg Xaa Ala Ala Ile

20

25

30

Lys Ile Xaa Thr Lys Ser

35

<210> 6908

<211> 137

<212> PRT

<213> Homo sapiens

<400> 6908

Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Arg

1

5

10

15

Ser Pro Ala Lys Thr Ile Ala Pro Gln Asn Ala Pro Arg Asp Glu Ser

20

25

30

Arg Gly Arg Ser Ser Phe Tyr Pro Asp Gly Gly Asp Gln Glu Thr Ala

35

40

45

Lys Thr Gly Lys Phe Leu Lys Arg Phe Thr Asp Glu Glu Ser Arg Val

50

55

60

Phe Leu Leu Asp Arg Gly Asn Thr Arg Asp Lys Glu Ala Ser Lys Glu

65

70

75

80

Lys Gly Ser Glu Lys Gly Arg Ala Glu Gly Glu Trp Glu Asp Gln Glu

85

90

95

Ala Leu Asp Tyr Phe Ser Asp Lys Glu Ser Gly Lys Gln Lys Phe Asn

100

105

110

Asp Ser Glu Gly Asp Asp Thr Glu Glu Thr Glu Asp Tyr Arg Gln Phe

115

120

125

6122

Arg Lys Ser Ser Pro Arg Arg Ser Gly
 130 135

<210> 6909

<211> 33

<212> PRT

<213> Homo sapiens

<220>

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<222> (10)

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<220>

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<222> (19)

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<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6909

Pro Val Ser Gly Val Pro Arg Arg Xaa Xaa Arg Ile Ala Gly Lys Arg
 1 5 10 15

Val Cys Xaa Met Glu Ser Gly Xaa Ala Gly Cys Phe Ser Pro Lys Ile
 20 25 30

Xaa

<210> 6910

<211> 112

<212> PRT

<213> Homo sapiens

6123

<220>
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<220>
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<220>
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<220>
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<220>
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<220>
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<400> 6910
 Xaa Thr Xaa Xaa Ser Cys Arg Tyr Leu Gly Gln Glu Xaa Pro Gly Arg
 1 5 10 15
 Pro Thr Arg Pro Met Ala Glu Tyr Asp Leu Thr Thr Xaa Ile Ala His
 20 25 30
 Phe Leu Asp Arg His Leu Val Phe Pro Leu Leu Glu Phe Leu Ser Val
 35 40 45
 Lys Glu Ile Tyr Asn Glu Lys Glu Leu Leu Gln Gly Lys Leu Asp Leu
 50 55 60
 Leu Ser Asp Thr Asn Met Val Asp Phe Ala Met Asp Val Tyr Lys Asn
 65 70 75 80
 Leu Tyr Ser Asp Asp Ile Pro His Ala Leu Arg Glu Lys Arg Thr Thr
 85 90 95
 Val Val Ala Gln Leu Lys Gln Ala Ser Gly Xaa Asn Gln Asn Gln Leu

6124

100

105

110

<210> 6911

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6911

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Tyr | Glu | Thr | Ile | Glu | Gln | Lys | Lys | Ala | Tyr | Glu | Ile | Ala | Gly | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Asp | Ile | Gly | Gly | Gln | Met | Gly | Leu | Phe | Ile | Gly | Ala | Ser | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Val | Leu | Glu | Leu | Phe | Asp | Tyr | Ala | Tyr | Glu | Val | Ile | Lys | His |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Cys | Arg | Arg | Gly | Lys | Cys | Gln | Lys | Glu | Ala | Lys | Arg | Ser | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asp | Lys | Gly | Val | Ala | Leu | Thr | Trp | Thr | Thr | Ser | Lys | Asp | Thr | Thr |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Cys | Glu | Asn | Leu | Arg | Gly | His | Pro | Ala | Gly | Met | Thr | Tyr | Ala | Trp |
| | | | 85 | | | | | | 90 | | | | | 95 | |

6125

Gln His Ser Thr Leu Xaa Ile Arg Ala Glu Gly Leu Xaa Arg Xaa Leu
 100 105 110

Leu Xaa

<210> 6912
 <211> 81
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<220>
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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (75)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6912
 Tyr Tyr Asn Gly Ala Ala Val Ile Xaa His Glu Arg Val Gln Lys Thr
 1 5 10 15

6126

Phe Pro His Pro Ile Asp Lys Trp Ala Xaa Ala Asp Ala Gln Ser Ala
 20 25 30
 Ile Glu Lys Gln Lys Arg Arg Asn Pro Leu Leu Leu Pro Val Asp Xaa
 35 40 45
 Ile His Pro Ser Xaa Xaa Glu Leu Leu Gly Tyr Lys Met Arg Leu Pro
 50 55 60
 Cys Ile Pro Ile Xaa Cys Gly Cys Thr Thr Xaa Tyr Leu Ser Leu Ile
 65 70 75 80

Phe

<210> 6913

<211> 50

<212> PRT

<213> Homo sapiens

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<220>

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<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6913

Xaa Ser Gly Tyr Tyr Pro Gly Gly Tyr Xaa Gly Ala Pro Gly Trp Pro
 1 5 10 15

6127

Ala Phe Pro Arg His Pro Leu Asp Pro Leu Phe Gly Xaa Phe Ala Ala
20 25 30
Val Ala Gly Gln Asp Gly Pro Ile Asp Ala Asp Glu Phe Leu Xaa Cys
35 40 45
Xaa Thr
50

<210> 6914

<211> 125

<212> PRT

<213> Homo sapiens

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (79)

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<220>

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<220>

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<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

6128

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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6914
 Arg Gly Cys Leu Gly Leu Gly Cys Pro Leu His Leu His Val Phe Ala
 1 5 10 15
 Xaa Val Ser Ala Met Leu Pro Leu Leu Arg Cys Val Pro Arg Val Leu
 20 25 30
 Gly Ser Ser Val Ala Gly Leu Arg Ala Ala Ala Pro Ala Ser Pro Phe
 35 40 45
 Arg Gln Leu Leu Gln Pro Ala Pro Arg Leu Cys Thr Arg Pro Phe Gly
 50 55 60
 Leu Leu Ser Val Arg Ala Gly Ser Glu Arg Xaa Pro Gly Leu Xaa Arg
 65 70 75 80
 Xaa Arg Gly Pro Cys Ala Xaa Gly Cys Gly Cys Gly Ser Leu Xaa Thr
 85 90 95
 Xaa Gly Asp Lys Ala Phe Val Asp Tyr Leu Ser Asp Glu Ile Xaa Glu
 100 105 110
 Glu Arg Lys Ile Xaa Lys His Lys Thr Leu Pro Lys Met
 115 120 125

<210> 6915
 <211> 124
 <212> PRT
 <213> Homo sapiens

<220>
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<220>
 <221> SITE
 <222> (115)

6129

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6915

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Leu | Ile | Xaa | Pro | Arg | Thr | Lys | Ala | Ile | Ile | Pro | Val | Asp | Ile |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |
| Gly | Gly | Phe | Pro | Ala | Asp | Tyr | Ser | Glu | Ile | Leu | Asp | Leu | Val | Glu | Arg |
| | | | 20 | | | | | 25 | | | | 30 | | | |
| Lys | Lys | Asp | Ile | Phe | Asn | Pro | Lys | Lys | Gly | Thr | Tyr | Gln | Glu | Lys | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Gly | Arg | Ile | Leu | Val | Leu | Ala | Asp | Ser | Ala | His | Ser | Phe | Gly | Ser | Ser |
| | 50 | | | | | | 55 | | | | 60 | | | | |
| Tyr | Lys | Gly | Lys | Lys | Ile | Gly | Ser | Val | Ala | Asp | Val | Thr | Ser | Phe | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Phe | His | Ala | Ile | Lys | Asn | Leu | Thr | Thr | Ala | Glu | Gly | Gly | Ala | Leu | Thr |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Trp | Asn | Leu | Pro | Asn | Asn | Phe | Asp | Asn | Glu | Gln | Ile | Tyr | Lys | Glu | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Met | Leu | Xaa | Ala | Leu | His | Gly | Lys | Ile | Arg | Met | His | | | | |
| | | 115 | | | | | 120 | | | | | | | | |

<210> 6916

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6130

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6916

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Phe | His | Phe | Ser | Lys | Leu | Asp | Leu | Glu | Thr | Leu | Ile | Ile | Phe | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Trp | Lys | Arg | Gln | Pro | Lys | Lys | Cys | Thr | Ser | Ala | Tyr | Pro | Leu | Gln |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Glu | Asp | Val | Asn | Leu | Arg | Val | Ile | Ser | Glu | Tyr | Gln | Lys | Leu | Phe |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asp | Ile | Pro | Ile | Gly | Tyr | Ser | Gly | His | Glu | Thr | Gly | Ile | Ala | Ile |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Ala | Ala | Val | Ala | Leu | Gly | Ala | Lys | Val | Leu | Glu | Arg | His | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Xaa | Lys | Thr | Trp | Xaa | Gly | Ser | Asp | His | Ser | Asp | Ser | Leu | Glu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Glu | Leu | Gly | Glu | Ala | Gly | Ala | Val | Ser | Ala | Ser | Cys | Xaa | Xaa |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Pro | Trp | Ala | Pro | Gln | Ala | Lys | Xaa | Leu | Thr |
| | | 115 | | | | | 120 | | | |

<210> 6917

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6131

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6917

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Leu | Gln | Ser | Glu | Asp | Phe | Ala | Val | Tyr | Tyr | Cys | Gln | Gln | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Trp | Tyr | Thr | Phe | Gly | Gln | Gly | Thr | Asn | Leu | Glu | Ile | Lys | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Val | Ala | Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Lys | Thr |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Ile | Xaa | Xaa | Xaa | Xaa | Xaa |
| | 50 | | | | |

<210> 6918

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6132

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6918

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Asp | Ile | Met | Glu | Ser | Gly | Lys | Thr | Ala | Ser | Pro | Lys | Ser | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Lys | Asp | Ala | Gln | Xaa | Met | Ala | Gln | Ile | Leu | Lys | Asp | Met | Gly | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Glu | Tyr | Glu | Pro | Arg | Val | Ile | Asn | Gln | Xaa | Leu | Glu | Phe | Ala | Phe |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Tyr | Val | Thr | Thr | Ile | Leu | Asp | Asp | Ala | Lys | Ile | Tyr | Ser | Ser | His |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Lys | Lys | Thr | Ser | Val | Asp | Ala | Xaa | Tyr | Val | Arg | Trp | His | Pro | Xaa |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Asp | His | Leu | Leu | Leu | Ser | Xaa | Pro | Lys | Ile | Phe | Leu | Xaa | Leu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Gln | Ala | Lys | Ser | Xaa | Leu |
| | | | | | 100 |

<210> 6919

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

6133

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6919

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Met | Ser | His | Arg | Lys | Phe | Ser | Ala | Pro | Arg | His | Gly | Ser | Leu | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Leu | Pro | Arg | Lys | Arg | Ser | Ser | Arg | His | Arg | Gly | Lys | Val | Lys | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Pro | Lys | Asp | Asp | Pro | Ser | Lys | Pro | Val | His | Leu | Thr | Ala | Phe | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Tyr | Lys | Ala | Gly | Met | Thr | His | Ile | Xaa | Arg | Glu | Phe | Xaa | Xaa | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Lys | Val | Asn | Lys | Arg | Val | Val |
| 65 | | | | | 70 | | | |

<210> 6920

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6134

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6920

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Gln | Arg | Pro | Thr | Xaa | Asn | Xaa | Xaa | Leu | Arg | Thr | Ile | Val | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Thr | Pro | Ala | Gly | Thr | Gly | Pro | Glu | Phe | Pro | Gly | Arg | Pro | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Pro | Trp | Thr | Ala | Asp | Glu | Gly | Val | Phe | Asp | Asn | Phe | Val | Leu | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Arg | Asp | Thr | Lys | Lys | Gln | Ser | Glu | Pro | Leu | Glu | Ile | Thr | Leu | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Pro | Glu | Arg | Thr | Arg | Asp | Ile | Thr | Gly | Leu | Arg | Glu | Ala | Thr | Glu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Glu | Ile | Glu | Leu | Tyr | Gly | Ile | Ser | Lys | Gly | Arg | Arg | Ser | Gln | Thr |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Cys | Ser | Leu | Leu | Phe | Ile | Tyr | Ser | Ile | Cys | Cys | Xaa | Tyr | Xaa | Thr |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Xaa | Xaa | Phe | Xaa | Ile |
| | | | | 115 |

<210> 6921

6135

<211> 131
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (75)
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<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

6136

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6921

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ser | Gly | Leu | Xaa | Ile | Gly | Xaa | Ala | Gly | Thr | Pro | Ala | Gly | Thr | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Glu | Phe | Pro | Gly | Arg | Xaa | Thr | Arg | Pro | Arg | Thr | Arg | Gly | Pro | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Arg | His | Pro | Gly | Ala | His | Gln | Gly | Asn | Leu | Ala | Phe | Gly | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Ser | Asn | Xaa | Ile | Ala | Ser | Pro | Gly | Ser | Pro | Ser | Leu | Gly | Arg | His |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Gly | Thr | Gly | Ser | Xaa | Val | Pro | Gly | Xaa | Pro | Cys | Leu | Asp | Arg |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Val | Ala | Tyr | Gly | Gly | Tyr | Xaa | Thr | Xaa | Glu | Asp | Arg | Arg | Pro | Thr |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Xaa | Lys | Ser | Xaa | Ala | Tyr | Gly | Tyr | Gln | Ala | Pro | Ser | Thr | Pro |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Pro | Val | Xaa | Pro | Ala | Tyr | Tyr | Pro | Gly | Leu | Xaa | Ser | Pro | Asp |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | |
|-----|-----|-----|
| Thr | Tyr | Xaa |
| | | 130 |

6137

<210> 6922

<211> 53

<212> PRT

<213> Homo sapiens

<400> 6922

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Glu | Ala | Thr | Cys | Ala | Cys | Leu | Leu | Ala | Gln | Gly | Glu | Glu | Ala | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Glu | His | Cys | Ser | Lys | Cys | Leu | Ala | Glu | Gln | Met | Ile | Leu | Glu | Glu |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gly | Arg | Cys | Leu | Ser | Gln | Ile | Leu | His | Thr | Glu | Phe | Lys | Ser | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Gly | Leu | Lys | Met | Glu |
| | 50 | | | |

<210> 6923

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6923

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Val | Thr | Val | Gly | Gly | Glu | Glu | Arg | Val | Ser | Arg | Lys | Pro | Thr | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Met | Arg | Cys | Met | Cys | Pro | Leu | Tyr | Asp | Pro | Asn | Arg | Gln | Leu | Trp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Leu | Ala | Pro | Leu | Ser | Met | Pro | Arg | Ile | Asn | His | Gly | Val | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ala | Glu | Gly | Phe | Leu | Phe | Val | Phe | Gly | Gly | Gln | Asp | Glu | Asn | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Thr | Leu | Ser | Ser | Gly | Glu | Lys | Tyr | Asp | Pro | Asp | Ala | Asn | Thr | Trp |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Leu | Pro | Pro | Met | Asn | Glu | Ala | Arg | His | Asn | Phe | Gly | Ile | Val |
| | | | | 85 | | | | | 90 | | | | | 95 | |

6138

Glu Ile Asp Gly Met Leu Tyr Ile Leu Gly Gly Glu Asp Gly Glu Lys
 100 105 110

Glu Leu Ile Ser Met Glu Cys Tyr
 115 120

<210> 6924

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6924

Ser Arg Ser Pro Glu Leu Arg Thr Ala Cys Leu Gln Pro Ser Ser Ile
 1 5 10 15

Glu Ile Leu Glu Tyr Ser Ser Asp Ser Glu Lys Glu Asp Asp Leu Glu
 20 25 30

Asn Val Leu Leu Ile Xaa Ser Glu Pro Pro His
 35 40

<210> 6925

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6925

6139

Pro Thr Ser Asp Pro Pro Leu Gly Ser Ser Pro Leu Gly Arg Arg Phe
 1 5 10 15
 Arg Val Leu Ser Ser Leu Arg Arg Ser Pro Met Phe Glu Glu Lys Ala
 20 25 30
 Ser Ser Pro Ser Gly Lys Met Gly Gly Glu Glu Lys Pro Ile Gly Ala
 35 40 45
 Gly Glu Glu Lys Gln Lys Glu Gly Gly Lys Lys Lys Asn Lys Glu Gly
 50 55 60
 Ser Gly Asp Gly Gly Arg Ala Glu Leu Asn Pro Trp Pro Glu Tyr Ile
 65 70 75 80
 Tyr Thr Arg Leu Glu Met Tyr Asn Ile Leu Lys Ala Glu His Asp Ser
 85 90 95
 Ile Leu Ala Glu Lys Lys Lys Lys Arg Ala Xaa Ala Leu Glu Asp Pro
 100 105 110
 Lys Leu Thr Tyr Ala Xaa Met Arg Xaa His Lys Phe Phe Tyr
 115 120 125

<210> 6926

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6926

Val Pro Val Xaa Asn Ser Arg Val Asp Pro Arg Val Arg Ile Pro Ser
 1 5 10 15
 Arg Thr Val Asn Arg Lys Ser Thr Asp Ser Pro Val Glu Cys Met Gly
 20 25 30
 Gln Glu Lys Gly Glu Phe Arg Glu Ile Phe Tyr Ile Ile Gly Ala Val
 35 40 45
 Val Phe Val Val Ile Ile Leu Val Ile Ile Leu Ala Ile Ser Leu His
 50 55 60
 Lys Cys Arg Lys Ala Gly Val Gly Gln Ser Trp Lys Glu Asn Ser Pro
 65 70 75 80

6140

Leu Asn Val Ser

<210> 6927

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6927

Val Xaa Ser Glu Tyr Pro Ser Ile Lys Leu Val Val Glu Trp Gln Leu
1 5 10 15

Gln Asp Asp Lys Asn Gln Ser Leu Phe Cys Trp Glu Ile Pro Val Gln
20 25 30

Ile Val Ser His Leu
35

<210> 6928

<211> 49

<212> PRT

<213> Homo sapiens

<400> 6928

Ala Ser Ser Ser Gly Gly Pro Leu Val Thr Val Ser Thr Pro Leu His
1 5 10 15

Gln Val Ser Pro Thr Gly Leu Glu Pro Ser His Ser Leu Leu Ser Thr
20 25 30

Glu Ala Lys Leu Val Ser Ala Ala Gly Gly Pro Leu Pro Leu Ser Ala
35 40 45

Pro

<210> 6929

<211> 86

<212> PRT

6141

<213> Homo sapiens

<400> 6929

```

Asp Leu Ser Lys His Ile Lys Thr His Gln Asn Lys Lys Gly Gly Pro
 1             5             10             15

Gly Val Ala Leu Ser Val Gly Thr Leu Pro Leu Asp Ser Gly Ala Gly
          20             25             30

Ser Glu Gly Ser Gly Thr Ala Thr Pro Ser Ala Leu Ile Thr Thr Asn
          35             40             45

Met Val Ala Met Glu Ala Ile Cys Pro Glu Gly Ile Ala Arg Leu Ala
          50             55             60

Asn Ser Gly Ile Asn Val Met Gln Val Ala Asp Leu Gln Ser Ile Asn
 65             70             75             80

Ile Ser Gly Asn Gly Phe
          85

```

<210> 6930

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6930

```

Thr Ser Thr Ser Gln Glu Pro Arg Trp Asp Gln Ser Thr Xaa Pro Gly
 1             5             10             15

Arg Ala Arg His Phe Phe Thr Val Thr Asp Pro Xaa Asn Leu Leu Leu
          20             25             30

Ser Gly Xaa Thr Ala Gly Ser Phe Leu Gly Thr Ser Cys Arg Thr Thr

```

6142

35

40

45

Gly Asp His Pro Ser Ile
50

<210> 6931

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6931

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | His | Ala | Asp | Gln | Thr | Leu | Leu | Thr | Cys | Arg | His | Gln | Cys | Pro | Arg |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | His | His | Leu | Ser | Ala | His | Arg | Pro | Ser | Ser | Cys | Trp | Xaa | Leu | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Tyr | Ser | Gly | Trp | Gly | Asn | Thr | Leu | Ser | Phe | Gly | Ala | Asp | Tyr |
| | | 35 | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asp | Glu | Leu | Lys | Cys | Leu | Asp | Ala | Pro | Val | Leu | Thr | Gln | Ala | Glu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Lys | Ala | Ser | Tyr | Pro | Gly | Lys | Asp | Tyr | Gln | Gln | His | Val | Leu | Cys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Ser | Leu | Arg | Gly | Gly | Lys | Asp | Ser | Leu | Pro | Ala |
| | | | | 85 | | | | | 90 | | | |

<210> 6932

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

6143

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6932

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ala | Ser | Val | Arg | Leu | Asp | Asn | Ser | Ser | Ser | Gly | Ala | Ser | Val | Val |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ile | Asp | Asn | Lys | Ile | Glu | Gln | Ala | Met | Asp | Leu | Val | Lys | Ser | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Met | Tyr | Ala | Val | Arg | Glu | Glu | Val | Glu | Val | Leu | Lys | Glu | Gln | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Glu | Leu | Ile | Glu | Lys | Asn | Ser | Gln | Leu | Glu | Gln | Glu | Asn | Asn | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Lys | Thr | Leu | Ala | Ser | Xaa | Glu | Gln | Leu | Ala | Gln | Phe | Xaa | Ala | Gln |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gln | Thr | Gly | Ser | Pro | Pro | Ala | Thr | Thr | Gln | Ser | Gln | Gly | Thr | Thr |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Gln | Xaa | Pro | Ala | Ser | Gln | Tyr | Xaa | Arg | Ala | Xaa | Asp | Gln | Pro | His | |
| | | 100 | | | | | | 105 | | | | | 110 | | |

<210> 6933

<211> 162

<212> PRT

<213> Homo sapiens

6144

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6933

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asn | Thr | Asp | Tyr | Val | Asn | Ala | Ser | Phe | Ile | Asp | Gly | Tyr | Arg | Gln |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Asp | Ser | Tyr | Ile | Ala | Ser | Gln | Gly | Pro | Leu | Leu | His | Thr | Ile | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Phe | Trp | Arg | Met | Ile | Trp | Glu | Trp | Lys | Ser | Cys | Ser | Ile | Val | Met |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Glu | Leu | Glu | Glu | Arg | Gly | Gln | Glu | Lys | Cys | Ala | Gln | Tyr | Trp |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Asp | Gly | Leu | Val | Ser | Tyr | Gly | Asp | Ile | Thr | Val | Glu | Leu | Lys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Glu | Glu | Glu | Cys | Glu | Ser | Tyr | Thr | Val | Arg | Asp | Leu | Leu | Val | Thr |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Thr | Arg | Glu | Asn | Lys | Ser | Arg | Gln | Ile | Arg | Gln | Phe | His | Phe | His |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Trp | Pro | Glu | Val | Gly | Ile | Pro | Ser | Asp | Gly | Lys | Gly | Met | Ile | Ser |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ile | Ala | Ala | Val | Gln | Lys | Gln | Gln | Gln | Gln | Ser | Gly | Asn | His | Pro |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Thr | Arg | Ala | Leu | Gln | Arg | Pro | Gly | Gln | Glu | Gly | Xaa | Gly | Pro | Ser |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

Val Pro

<210> 6934

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

6145

<400> 6934

```

Val Arg Ala Ser Gln Ser Ser Phe Ile Gly Thr Leu Asn Met Ser Gly
 1             5             10             15

Ile Ala Leu Ser Arg Leu Ala Gln Glu Arg Lys Ala Trp Arg Lys Asp
          20             25             30

His Pro Phe Gly Phe Val Ala Val Pro Thr Lys Asn Pro Asp Gly Thr
          35             40             45

Met Asn Leu Met Asn Trp Glu Cys Ala Ile Pro Gly Lys Lys Gly Thr
          50             55             60

Pro Trp Glu Gly Gly Leu Phe Lys Leu Arg Met Leu Phe Lys Asp Asp
          65             70             75             80

Tyr Pro Ser Ser Xaa Pro Lys Cys Lys Phe Glu Pro Pro Leu Phe
          85             90             95

```

<210> 6935

<211> 194

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6935

```

Thr Pro Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
 1             5             10             15

Gln Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
          20             25             30

Arg Gly Gln Ile Thr Phe Pro Leu Ser Pro Ala Leu Asn Ile Glu Val
          35             40             45

Glu Gln Asn Gly Lys Pro Ser Leu Val Asp Leu Asn Glu Glu Met Gln
          50             55             60

His Met Asp Val Glu Glu Ser Gln Cys Leu Arg Leu Cys Pro Phe Leu
          65             70             75             80

Glu Asp His Lys Glu Asp Ile Leu Cys Gly Pro Val Trp Leu Ala Ser
          85             90             95

Gly Leu Asp Leu Ser Gly His Ala Gly Met Leu Thr Leu Thr Ser Pro

```

6146

| | | |
|---|-----|-----|
| 100 | 105 | 110 |
| Lys Leu Val Lys Gly Met Ala Gly Gly Lys Tyr Arg Ser Phe Leu Ile | | |
| 115 | 120 | 125 |
| His Val Lys Ala Val Asn Glu Arg Gly Thr Glu Glu Ile Cys Asn Gly | | |
| 130 | 135 | 140 |
| Gly Met Arg Pro Val Val Arg Leu Pro Ser Leu Lys His Gln Ser Asn | | |
| 145 | 150 | 155 |
| Lys Gly Tyr Ser Leu Ala Ser Leu Leu Ala Lys Val Ala Ala Gly Lys | | |
| 165 | 170 | 175 |
| Glu Lys Ser Ser Asn Val Lys Asn Glu Asn Thr Ser Gly Thr Arg Lys | | |
| 180 | 185 | 190 |

Ser Glu

<210> 6936
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 6936
 Leu Ile Phe Ala Gly Lys Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp
 1 5 10 15
 Tyr Asn Ile Gln Lys Glu Ser Thr Leu His Leu Val Leu Arg Leu Arg
 20 25 30
 Gly Gly Ile Ile Glu Pro Ser Leu Arg Gln Leu Ala Gln Lys Tyr Asn
 35 40 45
 Cys Asp Lys Met Ile Cys Arg Lys Cys Tyr Ala Arg Leu His Pro Arg
 50 55 60
 Ala Val Asn Cys Arg Lys Lys Lys Cys Gly His Thr Asn Asn Leu Arg
 65 70 75 80
 Pro Lys Lys Lys Val Lys
 85

<210> 6937
 <211> 198
 <212> PRT

6147

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6937

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Tyr | Xaa | Gln | Glu | Lys | Ala | Gln | Ser | Met | Glu | Thr | Leu | Pro | Pro | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Val | Arg | Trp | Pro | Asp | Phe | Asn | Gln | Glu | Ala | Tyr | Val | Gly | Gly | Thr |
| | | 20 | | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Arg | Ser | Gly | Gln | Asp | Pro | Tyr | Ala | Arg | Asn | Lys | Phe | Asn | Gln |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Glu | Ser | Asp | Lys | Leu | Arg | Met | Asp | Arg | Ala | Ile | Pro | Asp | Thr | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Asp | Gln | Cys | Gln | Arg | Lys | Gln | Trp | Arg | Val | Asp | Leu | Pro | Ala | Thr |
| 65 | | | | | 70 | | | | 75 | | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Val | Ile | Thr | Phe | His | Asn | Glu | Ala | Arg | Ser | Ala | Leu | Leu | Arg |
| | | | 85 | | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Val | Val | Ser | Val | Leu | Lys | Lys | Ser | Pro | Pro | His | Leu | Ile | Lys | Glu |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ile | Leu | Val | Asp | Asp | Tyr | Ser | Asn | Asp | Pro | Glu | Asp | Gly | Ala | Leu |
| | | 115 | | | | | | 120 | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Lys | Ile | Glu | Lys | Val | Arg | Val | Leu | Arg | Asn | Asp | Arg | Arg | Glu |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Met | Arg | Ser | Arg | Val | Arg | Gly | Ala | Asp | Ala | Ala | Gln | Ala | Lys |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Leu | Thr | Phe | Leu | Asp | Ser | His | Cys | Glu | Cys | Asn | Glu | His | Trp | Leu |
| | | | 165 | | | | | | 170 | | | | | 175 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Pro | Leu | Leu | Glu | Arg | Val | Ala | Glu | Asp | Arg | Thr | Arg | Val | Gly | Ser |
| | | 180 | | | | | | 185 | | | | | 190 | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Pro | Ile | Ile | Xaa | Cys | His |
| | | | 195 | | |

6148

<210> 6938

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6938

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Phe | Ile | Ala | Ile | Leu | Phe | Gly | Ser | Ser | Thr | Ile | Ser | Leu | Ser | Asp |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ala | Ser | Arg | Arg | Cys | Ser | Val | Leu | Xaa | Ser | Thr | Leu | Ser | Ser | Gln |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Cys | Lys | Gln | Leu | Arg | Val | Tyr | Leu | Ser | Pro | Leu | Ser | Lys | Glu | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asp | Asp | Ser | Pro | Arg | Leu | Leu | Ala | Lys | Leu | Leu | Ala | Leu | Lys | Leu |
| | 50 | | | | | 55 | | | | 60 | | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Tyr | His | Ile | Xaa | Leu | Glu | Val | Lys | Gly | Cys | Asn | Thr | Glu | Asn | Thr |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | |
|-----|-----|-----|-----|-----|
| Phe | Phe | Tyr | Xaa | Asp |
| | | | | 85 |

<210> 6939

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

6149

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6939

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Lys | Lys | Pro | Ile | Arg | Tyr | Ala | Arg | Xaa | Val | Phe | Xaa | Gln | Tyr | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | His | Leu | Glu | Asn | Leu | Gln | Lys | Ala | Tyr | Val | His | Ser | Ile | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | |
|-----|-----|-----|-----|
| Cys | Val | Ser | Glu |
| | | | 35 |

<210> 6940

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6940

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Glu | His | Phe | Pro | Cys | His | Leu | Tyr | Tyr | Phe | Leu | Asn | Tyr | Ser | Phe |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Ala | Cys | Leu | Ile | Pro | His | Pro | Pro | Lys | Ser | Ile | Cys | Leu | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Ala | Ile | Ile | Phe | Ile | Phe | Met | Ser | Thr | Ala | Phe | Ile | Glu | Phe | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

<210> 6941

<211> 53

<212> PRT

<213> Homo sapiens

<220>

6150

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6941

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Arg | Val | Lys | Tyr | Lys | Leu | Leu | Ala | Ala | Val | Gly | Gly | Lys | Glu | Pro |
| 1 | | | | 5 | | | | | | 10 | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Pro | Lys | Leu | Trp | Gly | Phe | Pro | Leu | Phe | Pro | Arg | Glu | Ala | Xaa | Gly |
| | | | 20 | | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Met | Asn | Asp | Pro | Lys | Gly | Asn | Glu | Gln | Thr | Xaa | Gly | Asn | Pro | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Ser | Ala | Thr | Ser | Asp |
| | | 50 | | |

<210> 6942

<211> 122

<212> PRT

<213> Homo sapiens

<400> 6942

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Arg | Val | Gly | Ser | Glu | Glu | Gln | Arg | Lys | Ala | Val | Gly | Asp | Val | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Val | Pro | Arg | Asp | His | Pro | Ala | Met | Glu | Thr | Arg | Glu | Leu | Ser | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Gly | Arg | Gly | Leu | Ala | Ser | Lys | Lys | Asp | Arg | Glu | Trp | Thr | Gly | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Pro | Leu | Ser | Ser | Gly | Pro | Lys | Glu | Asp | Ser | Ser | Arg | Arg | Arg | Glu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Glu | Arg | Gln | Gly | Pro | Cys | Ala | Gly | Leu | Leu | Leu | Arg | Leu | Gln | Ala |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Leu | Pro | Glu | Ala | Val | Gln | Lys | His | Ser | Ser | Ala | Gly | Pro | Thr |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Phe | Leu | Ser | His | Val | Lys | Phe | Arg | Ser | Ser | Val | Lys | Thr | His | Ser |
| | | | 100 | | | | | 105 | | | | | 110 | | |

6151

Ser Pro Ala Gly Val Leu Arg Asp Ala Arg
 115 120

<210> 6943

<211> 53

<212> PRT

<213> Homo sapiens

<400> 6943

Cys Phe Leu Glu Arg Asn Gln Met Cys Phe Cys Gly His Ser His Phe
 1 5 10 15

Leu Phe Cys Glu Phe Ser Lys Leu Ser Thr Ile Ala Ile His Ser Ala
 20 25 30

Ile Phe Ile Val Tyr Asn Leu Leu Ser Leu Val Asp Lys His Gly Ser
 35 40 45

Leu Phe Leu Lys Leu
 50

<210> 6944

<211> 64

<212> PRT

<213> Homo sapiens

<400> 6944

Ser Pro Tyr Leu Leu Val Asn Val Ala Val Leu Leu Gln Asn Leu Phe
 1 5 10 15

Gln Pro Phe Ser Asp Phe Lys Pro Pro Val Pro Leu Pro Leu Arg Glu
 20 25 30

Asn Ser Asn His Lys Ser Leu Ser Thr Ser Tyr Tyr Leu Asn Ile Asp
 35 40 45

Asn Phe Gln Ile Arg Glu Leu Arg Tyr Leu Lys Leu Arg Phe Leu Phe
 50 55 60

<210> 6945

<211> 45

<212> PRT

6152

<213> Homo sapiens

<400> 6945

Asp Thr Glu Gly Lys Ser Trp Asn Phe His Lys Ser Leu Thr Gly Ala
1 5 10 15
Phe Leu Trp Leu Glu Leu Ala Gln Cys Asp Val Pro Glu Leu Val Gln
20 25 30
Arg Asn Ala Phe Ser Phe Ala Lys Gln Asn Phe Gln Glu
35 40 45

<210> 6946

<211> 85

<212> PRT

<213> Homo sapiens

<400> 6946

Gly Ala Ser Gln Ser Arg Ser Gly Ser Ser Val Arg Phe Pro Val Gly
1 5 10 15
Leu Thr Ala Gly Pro Trp Gly His His Pro His Leu Pro Ala Ser Ile
20 25 30
Ser Glu Thr Glu Ala Trp Glu Pro Pro Gly Pro Pro Glu Ser Gly Arg
35 40 45
Arg Lys Pro Ile Pro Gly Thr Gly Pro Gly Pro Phe Leu Val Arg Gly
50 55 60
Thr Leu Trp Ser Ile Val Gly Gln Arg Asn Leu Leu Phe Asn Ile Lys
65 70 75 80
Arg Ile Leu Cys Pro
85

<210> 6947

<211> 57

<212> PRT

<213> Homo sapiens

<400> 6947

Thr Gly Met Asn His His Ala Gln Pro His Leu Gln Phe Leu Lys Lys
1 5 10 15
Ile Leu Arg Ser Val Phe Phe Ile Val Tyr Lys Ser Phe Phe Val Ile
20 25 30

6153

Thr Lys Ile His Ala Phe Gly Arg Asn Thr Asn Ile Gln Arg Cys Ser
35 40 45

Ile Lys Leu Thr Phe Tyr Arg Thr Phe
50 55

<210> 6948

<211> 75

<212> PRT

<213> Homo sapiens

<400> 6948

Ala Lys Glu Leu Ile Asp Asp Tyr Phe Ala Phe Ser Lys Ile Val Phe
1 5 10 15

Asn Val Gly Ile Tyr Pro Ile Phe His Arg Asn Lys Val Gly Cys Ser
20 25 30

Gly Ser Asn Phe Lys Cys Arg Leu Val Ile Ser Lys Cys Asn Gly Thr
35 40 45

Ile Ile Ser Leu Val Gln Glu Thr Lys Leu Leu Pro Asn Leu Leu Leu
50 55 60

Phe Cys Phe Phe Met Ala Tyr Phe Lys Leu Lys
65 70 75

<210> 6949

<211> 61

<212> PRT

<213> Homo sapiens

<400> 6949

Arg Lys His Gly Arg Thr Cys Trp Trp Gly Pro Ser Asn Ile Gln Leu
1 5 10 15

Asn Leu Ser Pro Pro Ser Ser Pro Val Leu Cys Arg Asp Gly Ser Arg
20 25 30

Leu Leu Cys Gly Leu Asp Ile Ser Glu Gln Pro Asn Leu Ala Gly Ile
35 40 45

Asn Pro Lys Gly Thr Gly Leu Arg Gly Gln Glu Leu Lys
50 55 60

6154

<210> 6950

<211> 94

<212> PRT

<213> Homo sapiens

<400> 6950

Trp Asp Gln Arg Lys Arg Asn Ser Leu Val Pro Gly Pro Ala His Gly
1 5 10 15

Pro Ala Gln Glu Glu Pro Trp Glu Lys Lys Glu Ser Leu Gly Ala Ala
20 25 30

Gln Glu Ala Leu Ser Ile Gln Leu Gln Pro Lys Glu Thr Gln Pro Phe
35 40 45

Pro Lys Ser Glu Gln Val Tyr Leu His Phe Leu Ser Val Val Thr Glu
50 55 60

Asp Gly Pro Glu Pro Lys Asp Lys Gly Ser Leu Pro Gln Pro Pro Ile
65 70 75 80

Thr Glu Val Glu Ser Gln Val Phe Ser Glu Lys Leu Ala Thr
85 90

<210> 6951

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

6155

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6951
Gly Asn Lys Xaa Xaa Val Pro Xaa Val Xaa Pro Xaa Xaa Thr Met Asp
1 5 10 15
Pro Xaa Ala Ala Asp Ser Ala Glu Gln Arg Gln Arg Glu Pro Ala Gly
20 25 30
Pro Gln Val Ser Ser Asp Ala Ser Glu Ile Ser Cys Val Phe Val Ser
35 40 45
Ser Glu Leu His Arg Ser Leu Thr Leu Glu Pro Ala Cys Leu Pro Ala
50 55 60
Ala Val Leu Cys Ile Leu Arg Asn Gln
65 70

<210> 6952
<211> 116
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

6156

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6952

```

Arg Xaa His Xaa Leu Glu Leu His Arg Gly Ala Xaa Ala Leu Glu Leu
 1             5             10             15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Phe Pro Leu Lys
          20             25             30

Arg Arg Arg Lys Arg Glu Gly Glu Gln Glu Lys Lys Lys Leu Pro Tyr
          35             40             45

Met Ser Val Phe Leu Tyr Lys Lys Val Thr Pro Tyr Lys Glu Thr Thr
          50             55             60

Ile Gln Ala Gly Ala Arg Gly Leu Gly Ser Arg Gly Ile Pro Gly Glu
 65             70             75             80

Gln Ser Gln Gly Ile Pro Ser Lys Ser Pro Thr Cys Ser Glu Tyr Pro
          85             90             95

Thr Asn Val Ser Gly Ala Ser Ala Glu Val Ala Met Leu Asn Ala Ser
          100            105            110

Ser Ile Pro Gly
          115

```

<210> 6953

<211> 92

<212> PRT

<213> Homo sapiens

<400> 6953

```

Leu Ser Ile Val Cys Arg Met Asp Glu Arg Glu Ala Ala Glu Arg Gln
 1             5             10             15

Gln Gly His Ser Ala Ser Ser Gly Gly Arg Ser His Leu Met Glu Glu
          20             25             30

Asn Gln Phe Lys Glu Met Pro Phe Leu Tyr Arg Thr Pro Phe Asn Ser
          35             40             45

Ile Gln Glu Glu Arg Glu Ala Ala Ile Leu Arg Leu Ser Lys Tyr Ser
          50             55             60

Arg Gly Cys Pro Arg Met Ala Val Met Pro Gly Phe Trp Gln Val Pro
 65             70             75             80

```

6157

Asp Ser Ile Thr Ser Pro Ala Ser Leu His Gln Ile
 85 90

<210> 6954

<211> 95

<212> PRT

<213> Homo sapiens

<400> 6954

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Gly Gln Arg Trp Phe
 1 5 10 15

Tyr Pro Cys Leu Leu Leu Phe Phe Ser Leu Arg Phe Leu Arg Arg Arg
 20 25 30

Leu Leu Ser Arg Lys Cys Ala Val Val Ile Leu Glu Arg Leu Glu Ala
 35 40 45

Leu Leu Ala Thr Leu Gly Pro Arg Arg Ala His Val Met Thr Pro Thr
 50 55 60

Pro Gly Glu Arg Arg Arg Cys Gly Thr His Arg Pro Thr Gly Arg Val
 65 70 75 80

Ser Gly Gly Thr Leu Ile Val Ala Gly Arg Ser Gly Ala Ala Val
 85 90 95

<210> 6955

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

6158

<400> 6955

Xaa Ser Val Phe Xaa Glu Glu Gln Lys Met Glu Gln Leu Asp Xaa Arg
 1 5 10 15
 Ala Leu Ala Pro Leu Val Met Leu Pro Ala Thr Arg Thr Cys Asp Leu
 20 25 30
 Val Gln Lys Arg Ala Ala Val Leu Ser Ser Trp Trp Gln Val Met Tyr
 35 40 45
 Met Val Arg Arg Gln Arg Asp Ala Met Val Ala Gly Ala Ala Val Val
 50 55 60
 Glu Ser Thr Gly Arg His Ser Ala Trp
 65 70

<210> 6956

<211> 114

<212> PRT

<213> Homo sapiens

<400> 6956

His Pro Val Leu Pro Ser Val His Leu Ala Asp Pro Gly Gly Leu Cys
 1 5 10 15
 Pro Trp Gly Arg Gly Arg Arg Arg Gly Asp Cys Pro Arg His Pro His
 20 25 30
 Gly Gly Leu Cys Gly Leu Phe Pro Gly Leu Pro Asp Gly His Ile Pro
 35 40 45
 Gly Asp Leu Ser Arg Arg Val Arg Gly Gly Gln Gly Gly Ala Glu Arg
 50 55 60
 Pro Val Phe Pro Val Gly Arg Arg Arg Gln Gly Arg Arg Glu Gln Arg
 65 70 75 80
 Lys Ala His Arg Ala Glu Ala His Ala Glu Gly Gly Pro Ala Gly Thr
 85 90 95
 Gly Gly Asp Arg Val Arg Gly Leu Ser Arg Thr Pro Val Tyr Thr His
 100 105 110 ,
 Ser Ser

<210> 6957

6159

<211> 26
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6957
Val Leu Ser Met Phe Ile His Lys Asn Lys Ser Xaa Xaa Tyr Phe Xaa
1 5 10 15

Ser Leu Arg Met Leu Lys Lys Ala Asn Pro
20 25

<210> 6958
<211> 28
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)

6160

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6958

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Xaa | Xaa | Gly | Leu | Gln | Glu | Phe | Gly | Arg | Xaa | Gln | Lys | Ser | Ser | Leu |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Thr | Phe | Val | Gly | Ser | Xaa | Pro | Ser | Xaa | Gly | Pro |
| | | | 20 | | | | 25 | | | | |

<210> 6959

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

6161

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6959
 Arg Pro Ala Ser Arg Ala Gly Leu Lys Ala Xaa Pro Leu Leu Xaa Lys
 1 5 10 15
 Ser Trp Pro Pro Lys Xaa Cys Leu Xaa Glu Thr Ala Arg Thr Phe Asn
 20 25 30
 Phe Xaa Pro Ala Gly Ser Asp Leu Gly Trp Ile Leu Val Xaa Phe Pro
 35 40 45
 Leu Leu Gln Xaa Pro Pro Pro Leu Pro Arg Pro Phe Phe Phe Phe Phe
 50 55 60
 Xaa Lys Xaa Val Phe Tyr Xaa Glu Ile
 65 70

<210> 6960
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 6960
 Pro Ala Ala Pro Ser Phe Ala Trp Thr Leu Thr Ser Phe Met Val Leu
 1 5 10 15
 Leu Leu Gln Gly Gln Pro Pro Ser Ser Ser Ala Ser Lys Leu Cys Asn
 20 25 30
 Leu Gln Pro Ala Pro Val Pro Asp Cys Ile Thr Ser Asp Leu His Trp

6162

35

40

45

Phe

<210> 6961

<211> 73

<212> PRT

<213> Homo sapiens

<400> 6961

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Tyr | Ala | Ser | Leu | Phe | Leu | Arg | Trp | Ser | Thr | Ile | Ser | Glu | Asn | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ala | Thr | Thr | Gly | Tyr | Pro | Gly | Lys | Met | Ala | Ser | Gln | Phe | Gln | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | His | Leu | Gly | His | Pro | Gln | Pro | Ile | Leu | Met | Gly | Ser | Val | Ala | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Gly | Leu | Ser | Trp | His | Arg | Thr | Leu | Pro | Leu | Cys | Val | Ile | Gly |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Glu | Thr | Thr | Ser | Cys | Cys | Phe | Gly |
| 65 | | | | | 70 | | | |

<210> 6962

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6962

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Asn | His | Ser | Tyr | Pro | Arg | Tyr | Ser | Lys | Xaa | Leu | Thr | Gln | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asn | Asn | Ala | Tyr | Asn | Phe | Phe | Gly | Val | Lys | Ser | Thr | Ser | Leu | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

6163

[illegible]

<210> 6963

<211> 70

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

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<400> 6963

[illegible]

<210> 6964

<211> 74

<212> PRT

<213> Homo sapiens

<400> 6964

Arg Pro Ala Arg Ser Pro Ala Glu Val Gly Ser Arg Gly Leu Ser Ser
1 5 10 15

6164

Pro Pro Arg Ala His His Arg Pro Val Ser Pro Ala Ala Pro Gly Arg
 20 25 30

Trp Ser Thr Ser Ala Arg Val Arg Thr Arg Lys Met Val Asn Tyr Ala
 35 40 45

Trp Ala Gly Arg Thr Glu Glu Thr Leu Val Glu Val Arg Ser Gly Pro
 50 55 60

Asp Val Gln Ile Gly Arg Pro Thr Trp Val
 65 70

<210> 6965

<211> 38

<212> PRT

<213> Homo sapiens

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6965

Lys Ala Glu Thr Lys Pro Glu Leu Thr Pro Lys His Val Asp Xaa Val
 1 5 10 15

Thr Xaa Met Ser Leu Phe Gly Ile Thr Leu Leu Phe Met Ser His Ile
 20 25 30

Leu Val Gly Ser Ser Asp
 35

<210> 6966

<211> 31

<212> PRT

<213> Homo sapiens

<220>

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<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

6165

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6966

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ala | Xaa | Asp | Trp | Ser | Lys | Xaa | Cys | Ile | Leu | Arg | Asp | Met | Asn |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gln | Ser | Leu | Asp | His | Glu | Asp | Asp | Arg | Ile | Pro | Arg | Asn | Ser |
| | | | 20 | | | | 25 | | | | | | 30 | |

<210> 6967

<211> 79

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

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6166

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6167

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 1 5 10 15

 Xaa Glu Asp Gly Leu Ile Glu Gly Xaa Val Xaa Ser Trp Asn Pro Asn
 20 25 30

 Ser Cys Val Xaa Gly Val Thr Leu Val Leu His Asn Val Xaa Leu Trp
 35 40 45

 Trp Ile Gly Xaa Thr Glu Xaa Xaa Xaa Xaa Xaa Xaa Phe Xaa Ile Xaa
 50 55 60

 Xaa Cys Xaa Xaa Xaa Ser Xaa Lys Ser Val Phe Glu Gly Xaa Gln
 65 70 75

 <210> 6968
 <211> 115
 <212> PRT
 <213> Homo sapiens

6168

<220>
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<222> (64)
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<222> (70)
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6169

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 <221> SITE
 <222> (114)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6968
 Met Leu Phe Ile Leu Pro Thr Asn Leu His Ser Ser His Gly Ile Thr
 1 5 10 15
 Ala Gln Thr Thr Trp Gln Thr Glu Arg Gln Met Gln Ser Cys Thr Asp
 20 25 30
 Ser Val Gly Pro Ala Gly Val Gly His Leu Asn Arg Pro Leu Leu Pro
 35 40 45
 Asn Ser Leu Arg Trp Val Glu Gln Glu Gly Leu Pro Trp Pro Arg Xaa
 50 55 60
 His Gly Arg Lys Xaa Xaa Phe Phe Ser Arg Arg His Val Ile Val Gly
 65 70 75 80
 Xaa Xaa Xaa Tyr Ile Ile Leu Gly Xaa Pro Xaa Phe Leu Lys Asn Ser

6170

85

90

95

Xaa Arg Val Xaa Lys Ile Xaa Xaa Lys Trp Gly Xaa Xaa Xaa Lys Val
100 105 110

Xaa Xaa Ile
115

<210> 6969

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6969

Lys Ser Phe Leu Ser Leu Tyr Leu Gly Leu Phe Thr Phe Arg Phe Phe
1 5 10 15

Phe Asn Val Ile Ile Phe Thr Leu Trp Ile Ser Asn Phe Val Pro Phe
20 25 30

Lys Ile Arg Asp Arg Arg His Ile Gln Leu Asp Leu Leu Met Thr Phe
35 40 45

Cys Trp Thr Thr Phe Leu His Glu Cys Phe Xaa Ala Leu Gly Asp
50 55 60

<210> 6970

<211> 99

<212> PRT

<213> Homo sapiens

<220>

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<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (89)

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6171

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6970

Ala Leu Pro Asn Ala Gly Thr His Ser Val Thr Arg Thr Arg Phe Leu
1 5 10 15

Ser Val Pro Phe Leu Pro Met Leu Val Pro Phe Ala Ile Asp Ser Gly
20 25 30

Leu Ile Ser Gly Lys Thr Ala Leu Cys Asn Phe Leu Tyr Leu Leu Arg
35 40 45

Val Gln Ser Gly Gly Glu Arg Leu Arg Asp Pro Gly Phe Ser Trp Cys
50 55 60

Phe Ile Gly Ser Asp Trp Val Met Ser Pro Xaa Tyr Glu Thr Asn Cys
65 70 75 80

Cys Gly Leu Gln Lys Cys Gly Gln Xaa Pro Leu Asp Ser Xaa Gly Phe
85 90 95

Ser Xaa Cys

<210> 6971

<211> 70

<212> PRT

<213> Homo sapiens

<220>

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<220>

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<222> (16)

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<220>

<221> SITE

<222> (21)

6172

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

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<220>

<221> SITE

<222> (43)

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<221> SITE

<222> (48)

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<220>

<221> SITE

<222> (54)

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<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

6173

<400> 6971

Tyr Pro Trp Lys Gly Phe Arg Gln Xaa Ser Ser Ser Gly Asn Ser Xaa
 1 5 10 15
 Glu Ser Arg Trp Xaa Ser Trp Xaa Met Ala Phe Ser Gly Xaa Xaa Ser
 20 25 30
 Pro Gly Thr Gly Cys Leu Xaa Tyr Lys His Xaa Xaa Thr His Met Xaa
 35 40 45
 Glu Val Lys Lys Ser Xaa Phe Arg Lys His Phe Phe Asn Gly Leu Asn
 50 55 60
 Xaa Gly Gly Phe Xaa Phe
 65 70

<210> 6972

<211> 59

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6972

Val Xaa Leu Val Ala Asp Leu Ser His Ala Leu Arg Ile Arg Leu Tyr
 1 5 10 15
 Lys Tyr Ile Trp Ala Lys Pro Ser Xaa Ala Met Gly Met Trp Lys Arg
 20 25 30
 Tyr Val Gly Ser Ser Val Glu Tyr Gln Ser Met Met Arg Thr Phe Ser
 35 40 45
 Arg Pro Ser Ser Gly Leu Glu Phe Gly Phe Gln
 50 55

<210> 6973

<211> 59

6174

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6973
Gln Ala Ser Leu Gly Ser Xaa Thr Gln Trp Phe Xaa Phe Ser Lys Cys
1 5 10 15
Ser Lys Arg Ala Ser Thr Asn Val Gln Val Asn Phe Xaa Ser Phe Cys
20 25 30
Leu Gly Ile Met Phe Ala Thr Val Leu Leu Asn Gln Ser Lys Ser Phe
35 40 45
Met Asn Gln Pro Arg Phe Gln Gly Leu Glu Glu
50 55

<210> 6974
<211> 46
<212> PRT
<213> Homo sapiens

<220>
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<220>
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<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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6175

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6974

Asn Ser Ala Gln Leu Gln Leu Leu Lys Val Arg Phe Arg Leu Phe Asn

1

5

10

15

Pro Leu Leu Met Asn Ala Asn Met Xaa Gln Xaa Trp Val Gly Ile Leu

20

25

30

Gln Val Ile Phe Ile Ser Ala Gln Arg Xaa Lys Thr Ile Ser

35

40

45

<210> 6975

<211> 52

<212> PRT

<213> Homo sapiens

<220>

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<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6975

Phe Gly Xaa Asn Arg Ser Gly Ser Arg Thr Leu Pro Ser Thr Ala Glu

1

5

10

15

Gln Pro Ala Arg Glu Val Glu Gly Leu Gly Arg Ala Pro Gly Lys Glu

20

25

30

Trp Glu Met Val Arg Ile Gly Val Gly Gly Ala Lys Arg Gly Xaa Ser

35

40

45

Pro Arg Cys Thr

50

<210> 6976

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

6176

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (71)

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<220>

<221> SITE

<222> (83)

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<400> 6976

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Arg | His | Gln | Asn | Asn | Val | Ser | Ser | Glu | Ile | Asn | Ser | Gly | Ile |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Arg | Asn | Met | Ala | Asn | Arg | Arg | Asn | His | Lys | Glu | Trp | Gly | Pro |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Gly | Gly | Gly | Trp | Ser | Asn | Asp | Glu | Leu | Thr | Thr | Leu | Ile | Ile | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Trp | Val | His | Ile | Tyr | Gln | Xaa | Gly | Gly | Leu | Leu | Leu | Leu | Phe |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Xaa | Met | Leu | Lys | Xaa | Xaa | Val | Gly | Cys | Phe | Xaa | Gly | Lys | Cys | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

Gly Glu Xaa Ser

<210> 6977

<211> 65

6177

<212> PRT
<213> Homo sapiens

<220>
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<220>
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6178

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<400> 6977

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ala | Pro | Arg | Xaa | Gly | Xaa | Pro | Ile | Xaa | Phe | Gly | Gly | Xaa | Cys | Cys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Phe | Gln | Ile | Xaa | Xaa | Xaa | Gly | Xaa | Phe | Gly | Ile | Tyr | Glu | Glu | Xaa |
| | | 20 | | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Gly | Xaa | Xaa | Xaa | Gly | Xaa | Gly | Xaa | Trp | Gly | Glu | Val | Xaa | Xaa | Ile |
| | 35 | | | | | 40 | | | | | 45 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gln | Gly | Gly | Leu | Xaa | Lys | Gly | Xaa | Lys | Lys | Xaa | Lys | Xaa | Xaa | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | | | |

Pro

65

<210> 6978

<211> 60

<212> PRT

<213> Homo sapiens

<220>

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6180

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6181

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<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6978

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Xaa | Arg | Leu | Leu | Val | Ser | Gly | Leu | Gly | Phe | Ser | Ser | Arg | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Xaa | Met | Ile | Pro | Lys | Xaa | Val | Xaa | Lys | Met | Xaa | Xaa | Phe | Xaa | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gln | Xaa | Gly | Ile | Xaa | Gly | Xaa | Xaa | Xaa | Xaa | Val | Gln | Pro | Xaa | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Xaa | Pro | Leu | Pro | Cys | Phe | Xaa | Pro | Arg | Gly |
| | | 50 | | | | 55 | | | | | 60 |

<210> 6979

<211> 65

<212> PRT

<213> Homo sapiens

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 1 5 10 15

Asn Trp Phe Gly Pro Xaa Xaa Xaa Leu Leu Xaa Gly Xaa Ala Xaa Arg
 20 25 30

Leu Xaa Glu Arg Gly Gly Xaa Xaa Arg Gly Xaa Xaa Pro Asp Trp Xaa
 35 40 45

Arg Trp Ala Xaa Leu Gly Xaa Gly Asn Arg Val Phe Ala Leu Gly Gly

6184

50

55

60

Xaa

65

<210> 6980

<211> 68

<212> PRT

<213> Homo sapiens

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 Xaa Val Leu His Arg Lys Val Phe Xaa Met Val Gly Ser Gln Lys Asn
 20 25 30
 Leu Pro Arg Xaa Leu Met Leu Xaa Val Xaa Phe Xaa Glu Xaa Leu Xaa
 35 40 45
 Thr Xaa Glu Xaa Asp Cys Xaa Xaa Gly Xaa Gly Xaa Cys Trp Lys Gln
 50 55 60
 Gln Glu Ala Xaa
 65

<210> 6981
 <211> 86
 <212> PRT
 <213> Homo sapiens

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6187

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<400> 6981

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gly | Thr | Gly | Asn | Ser | Thr | Ser | Asn | Pro | His | Pro | Gly | Pro | Gln | Leu |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Arg | Arg | Xaa | Leu | Gly | Arg | Glu | Leu | Ala | Ser | Ser | Pro | Ser | Thr | Xaa |
| | | | 20 | | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Pro | Gly | Asp | Ala | Pro | Xaa | Trp | Ala | Gly | Pro | Thr | Lys | Gly | Pro | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gln | Gly | Arg | Ala | Pro | Gly | Ala | Gly | Phe | Pro | Arg | Glu | Ala | Thr | Phe |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Val | His | Gly | Pro | Gly | Ile | Asp | Ala | Pro | Phe | Gly | Gln | Xaa | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Ser | Lys | Val | Gly |
| | | | | 85 | |

<210> 6982

<211> 83

<212> PRT

<213> Homo sapiens

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6188

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<400> 6982

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Ala | Leu | Arg | Pro | Ser | Asp | Leu | His | Ile | Trp | Gly | Gln | Phe | Cys |
| 1 | | | | 5 | | | | | | 10 | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | His | Trp | Phe | Leu | Pro | Leu | Asp | Gly | Thr | Gly | Leu | Arg | Trp | Leu | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Ala | Trp | Ala | Phe | Leu | Phe | Lys | Ile | Pro | Trp | Xaa | Gly | His | Thr |
| | | | 35 | | | | | 40 | | | | 45 | | | |

6189

Xaa Lys Thr His Xaa Ala Asp Glu Glu Asn Glu Arg Leu Arg Xaa Asp
50 55 60

Xaa Gln Xaa Leu Arg Xaa Leu Trp His Arg Gly Xaa Phe Ser Ser Pro
65 70 75 80

Xaa Lys Ser

<210> 6983

<211> 126

<212> PRT

<213> Homo sapiens

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6190

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<400> 6983
 Pro Phe Leu Pro Phe Leu Leu His Tyr Trp Tyr Tyr Leu Ile Arg Ile
 1 5 10 15
 Val Leu Cys Phe Glu Asn Leu Phe Phe Pro Gln Xaa Ser Leu Thr Tyr
 20 25 30
 Phe Leu Gln Thr Asp Arg Ile Gln Arg Lys Asn Ser Pro Ser Phe Ile
 35 40 45
 His Tyr Glu Met Asn Phe Ser Phe Glu His Val Ile Leu Leu Phe Cys
 50 55 60
 Ser Asn Gly Asp Gln Arg Asp Thr Gly Xaa Pro Pro Val Phe Ser Ser
 65 70 75 80
 Ser Phe Gln Phe Trp Thr Xaa Lys Glu Arg Gly Leu Val Xaa Ile Val
 85 90 95
 Ala Xaa Leu Xaa Leu Xaa Gln Ala Cys Gly Asp Xaa Arg Xaa Xaa Gly

6191

| | 100 | | 105 | | 110 | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Xaa | Gly | Ser | Arg | Val | Leu | Val | Met | Xaa | Asn | Val | Xaa | Phe |
| | | 115 | | | | | 120 | | | | | 125 | |

<210> 6984

<211> 58

<212> PRT

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6193

<400> 6984

Ile Xaa Asn Phe Pro Xaa Cys Thr Xaa Xaa Xaa Leu Ala Xaa Lys Gly
 1 5 10 15

Lys Val Lys Leu Trp Leu Val Ile Gln Xaa Xaa Leu Met Xaa Pro Xaa
 20 25 30

Lys Leu Ala Ala Lys Xaa Gly Xaa Pro Ala Xaa Xaa Leu Val Trp Gly
 35 40 45

Gln Gly Xaa Pro Xaa Val Pro Pro Xaa Xaa
 50 55

<210> 6985

<211> 51

<212> PRT

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<400> 6985

Ile Lys His Thr Leu Ile Lys Cys Ala Phe Xaa Ile Asn Ser Gln Cys
 1 5 10 15

Leu Xaa Phe Ser Ser Gly Arg Glu Pro Ala Leu Ala Leu Gly Glu Ser
 20 25 30

Ser Thr Ala Glu Val Lys Leu Met Arg Ala His Gln Gly Met Leu Glu
 35 40 45

Gly Gly Gly
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<210> 6986

<211> 84

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6195

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<400> 6986
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Ala Lys Xaa Gln Ile Gln Ala His Ser Ala Pro Ser Phe Xaa Gly Phe
20 25 30
Pro Xaa Phe Ala Leu Arg Gly Xaa Phe Arg Gly Gly Leu Gly Pro Pro

6196

35 40 45

Gly Xaa Gly Leu Gln Xaa Xaa Val Phe Xaa Pro His Gly Leu Xaa Xaa
50 55 60

Gly Pro Xaa Xaa Xaa Val Phe Pro Gly Ala Xaa Gly Xaa Xaa Gly Xaa
65 70 75 80

Xaa Asn Xaa Trp

<210> 6987

<211> 132

<212> PRT

<213> Homo sapiens

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6198

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 Arg Arg Cys His Ala Xaa Val His Arg Ser Gln Cys Xaa Leu Cys Arg
 20 25 30
 Leu Gly Ala Ala Gly Glu Arg Gly Arg Gln Pro Gly Arg Gly Thr Gly
 35 40 45
 Thr Pro Gly Glu Pro Ser Arg Pro Lys Ala Leu Xaa Leu Pro Gln Ser
 50 55 60
 Val Ser Xaa Gly Leu Val Ala Leu Leu Ala Ser Arg Asn Leu Xaa Xaa
 65 70 75 80
 Pro Pro Leu His Trp Val Leu Leu Ala Leu Ala Leu Val Asn Leu Xaa
 85 90 95
 Leu Xaa Leu Pro Val Xaa Trp Gly Phe Phe Cys Cys Val Asn Tyr Cys
 100 105 110
 Gly Xaa Xaa Xaa Ala Xaa Xaa Xaa Leu Xaa Xaa Xaa Xaa Xaa Asp Phe
 115 120 125
 Leu Asp Leu Trp
 130

6199

<210> 6988

<211> 64

<212> PRT

<213> Homo sapiens

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<400> 6988

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| Asn | Ala | Asp | Val | Xaa | Val | Pro | Ser | Leu | Ser | Gln | Xaa | Thr | Gly | Cys | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Trp | Arg | Thr | Ala | Gln | Met | Gln | Leu | Tyr | Glu | His | Tyr | Gly | Lys | Cys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Lys | Lys | Arg | Gln | Leu | Val | Xaa | Pro | Thr | Phe | Ala | Leu | Val | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ala | Ser | Trp | Val | Val | Xaa | Cys | Lys | Ala | Pro | Gly | Gly | Gly | Ile | Phe |
| | 50 | | | | | 55 | | | | | 60 | | | | |

<210> 6989

<211> 30

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<400> 6989

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Tyr | Ser | Glu | Asp | Thr | Ile | Phe | Thr | Leu | Gly | Val | Asn | Ser | His | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Gln | Ala | Ser | Thr | Gly | Xaa | Lys | Leu | Gly | Glu | Val | Phe | Glu |
| | | | 20 | | | | 25 | | | | | | 30 |

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<211> 97

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 1 5 10 15
 Leu Glu Asn Asn Phe Pro Thr Tyr Ser Ile Xaa Ala Ser Lys Val Xaa
 20 25 30
 Gln Xaa Leu Xaa Lys Leu Arg Gly Gly Phe Gly Gly Xaa Gly Phe Phe
 35 40 45
 Thr Leu Xaa Arg Xaa Phe Phe Phe Xaa Phe Leu Xaa Arg Xaa Leu Leu
 50 55 60
 Leu Gly Glu Phe Ala Pro Gly Gly Xaa Leu Phe Ser Arg Xaa Xaa Xaa
 65 70 75 80
 Phe Xaa Gln Xaa Phe Xaa Xaa Gly Val Xaa Gly Xaa Pro Phe Xaa Glu

6203

85

90

95

Xaa

<210> 6991

<211> 43

<212> PRT

<213> Homo sapiens

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<222> (29)

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<400> 6991

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Arg | Xaa | Xaa | Leu | Pro | Ser | Gln | Met | Ser | Cys | Arg | Lys | Arg | Phe | Asp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Met | Trp | Arg | Ser | Arg | Arg | Val | Ile | Asp | Gly | Pro | Xaa | Leu | Glu | Trp |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Val | Gln | Ile | Pro | Ala | Thr | Gln | Leu | Lys | Arg |
| | | 35 | | | | 40 | | | | |

<210> 6992

<211> 57

<212> PRT

<213> Homo sapiens

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6204

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<400> 6992

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Glu | Glu | Trp | Gly | Ser | Gly | Xaa | Trp | Xaa | Gln | Leu | Ile | Xaa | Xaa | Phe |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asp | Phe | Ile | Gly | Glu | Gly | Ser | Xaa | Gly | Xaa | Xaa | Glu | Xaa | Xaa | Thr |
| | | | 20 | | | | | 25 | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Val | Xaa | Xaa | Cys | His | Gln | Pro | Trp | Pro | Gln | Leu | Ala | Xaa | Leu | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gly | Arg | Lys | Pro | Asp | Xaa | Xaa | Pro |
| | 50 | | | | | 55 | | |

<210> 6993

<211> 100

<212> PRT

<213> Homo sapiens

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6207

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6208

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<400> 6993
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 1 5 10 15
 Pro Leu Trp Xaa Asp Leu Leu Xaa Ile Thr Lys Leu Leu Leu Phe Ser
 20 25 30
 Gln Lys Arg Ile Ser Xaa Trp Met Val His Gly Asn Xaa Phe Xaa Xaa
 35 40 45
 Xaa Gly Xaa Xaa Xaa Gly Val Xaa Gly Xaa Xaa Xaa Xaa Xaa Phe Gly
 50 55 60
 Gly Phe Phe Gly Pro Xaa Xaa Leu Xaa Xaa Pro Pro Xaa Xaa Gly Gly
 65 70 75 80
 Phe Phe Xaa Asn Xaa Pro Xaa Phe Gly Xaa Gly Gly Gly Asn Xaa Xaa

6209

85

90

95

Pro Arg Pro Xaa
100

<210> 6994

<211> 69

<212> PRT

<213> Homo sapiens

<400> 6994

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Ala | Glu | Pro | Arg | Arg | Ala | Trp | Ala | Val | Gly | Ser | Gly | Lys | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | His | Ser | Gly | Thr | Pro | Val | Lys | Pro | Val | Gln | Pro | Ser | Val | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Gly | His | Leu | Glu | Ser | Thr | Leu | Ser | Leu | Leu | Cys | Pro | Ser | Thr | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Thr | Val | Ser | Leu | Ser | Gln | Met | Glu | Ala | Glu | Leu | Asn | Thr | Leu | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |

Trp Met Met Glu Thr
65

<210> 6995

<211> 63

<212> PRT

<213> Homo sapiens

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6210

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<400> 6995

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Lys | Pro | Asp | Asp | His | Asn | Leu | Xaa | Met | Glu | Val | Val | Arg | Ile | Phe |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Pro | Gln | Gly | Pro | Glu | Asn | Pro | Gln | Cys | Ser | Xaa | Gly | Asp | Thr | Leu |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Lys | Asn | Val | Cys | Xaa | Pro | Glu | Lys | Gly | Val | Gly | Pro | Leu | Val | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Ala | Ala | Thr | Val | Pro | Val | Tyr | Met | Gly | Pro | Val | Lys | Ile | Xaa | Gly | |
| | 50 | | | | | 55 | | | | | 60 | | | | |

<210> 6996

<211> 106

<212> PRT

<213> Homo sapiens

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<400> 6996
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 1 5 10 15
 Gln Gly Ser Thr Arg Arg Met Xaa Val Met Xaa Xaa Val His Arg Xaa
 20 25 30
 Phe Leu Xaa Phe Leu Met Thr His Gly Val Leu Lys Glu Trp Glu Arg

6212

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 35 | | | | | 40 | | | | | 45 | | | | | | |
| Glu | Arg | Pro | Cys | Arg | Gly | Thr | Ala | Thr | Arg | Ser | Met | Asn | Arg | Ser | Ala | |
| 50 | | | | | 55 | | | | | 60 | | | | | | |
| His | Arg | Arg | Xaa | Xaa | Trp | Arg | Thr | Ser | Ser | Asn | Asn | Ile | Xaa | Gln | Xaa | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| Phe | Gly | Ser | Pro | Cys | Ile | Leu | Arg | Leu | Lys | Arg | Arg | Ser | Ala | Arg | Lys | |
| 85 | | | | | 90 | | | | | 95 | | | | | | |
| Asp | Asp | Gly | Xaa | Thr | His | Phe | Met | Xaa | Trp | | | | | | | |
| 100 | | | | | 105 | | | | | | | | | | | |

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<210> 6997
<211> 73
<212> PRT
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6213

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<400> 6997
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 Cys Pro Arg Pro Phe Val Ser His Ser Xaa Gln Trp Gly Trp Leu Xaa
 20 25 30
 Leu Cys Gln Ala Lys Val Gln Gly Met Glu Val Gln Leu Cys Xaa Lys
 35 40 45
 Val Glu Pro Xaa Trp Asp Arg Gly Ser Phe Ser Ser Lys Ala Xaa Ala
 50 55 60
 Trp Xaa Tyr Glu Trp Xaa Xaa Arg Gly
 65 70

<210> 6998
 <211> 115
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6214

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<400> 6998

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Ser | His | Ser | Lys | Pro | Gly | Ser | Thr | Xaa | Thr | Thr | Leu | Ser | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Ile | Thr | Thr | Ser | Ser | Phe | Ala | Gln | Xaa | Phe | Thr | Thr | Pro | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gln | Pro | Gly | Ser | Ala | Leu | Xaa | Thr | Val | Ser | Pro | Ala | Ser | Thr | Thr |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Pro | Gly | Leu | Ser | Glu | Glu | Ser | Thr | Thr | Phe | Tyr | Ser | Ser | Pro | Gly |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Glu | Thr | Thr | Ala | Phe | Xaa | His | Ser | Asn | Thr | Ser | Ala | Tyr | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Glu | Asn | Gly | Thr | Gly | Asn | Ser | Met | Met | Cys | Leu | Lys | Ser | Xaa | Arg |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Glu | Gly | Thr | Pro | Gly | Ile | Xaa | Pro | Glu | Asp | Gly | His | Leu | Gly | Arg |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | |
|-----|-----|-----|
| Thr | Arg | Ile |
| | | 115 |

<210> 6999

<211> 80

<212> PRT

<213> Homo sapiens

<220>

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6215

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<220>
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6216

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6999

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Pro | Arg | Pro | Ile | Arg | His | Ser | Xaa | His | Phe | Thr | Arg | Xaa | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Phe | His | Lys | His | Ile | Xaa | Ile | Leu | Gln | Gln | His | Phe | Xaa | Met | Val | Pro |
| | | | 20 | | | | 25 | | | | | | 30 | | |
| Ala | Val | Glu | Xaa | Ser | Asn | Val | Lys | Xaa | Xaa | Xaa | Pro | Pro | Ser | His | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Ala | Ser | Ser | Thr | His | Phe | Phe | Gly | Lys | Leu | Ser | Ser | Ala | Cys | Asn | Met |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Leu | Pro | Lys | Xaa | Xaa | Arg | Lys | Gln | His | Trp | Arg | Pro | Val | Phe | Arg | Asn |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

<210> 7000

<211> 77

<212> PRT

<213> Homo sapiens

<400> 7000

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Asp | Ala | Lys | Ser | Val | Phe | Thr | Lys | Thr | Ile | Gln | Met | Leu | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Asn | Tyr | Gln | Ile | Ser | Phe | Pro | Thr | Phe | Gly | Lys | Gly | Val | Ala | Leu | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Pro | Tyr | Trp | Asp | Tyr | Lys | Leu | Val | Met | Val | Phe | Gly | Lys | Gln | Phe | Gly |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Asn | Met | His | Gln | Lys | Leu | Leu | Thr | Phe | Phe | Ile | His | Leu | Trp | Pro | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Asn | Phe | Ile | Ser | Glu | His | Leu | Phe | Tyr | Gly | Asn | Tyr | Ser | | | |
| 65 | | | | | 70 | | | | | 75 | | | | | |

<210> 7001

<211> 33

<212> PRT

<213> Homo sapiens

6217

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<400> 7001
 Thr Val Asp Tyr Tyr Ser Gln Arg Glu Lys Ser His Leu Thr Xaa Ser
 1 5 10 15
 Leu Phe Lys Leu Ser Xaa Pro Glu Arg Xaa Lys Tyr Gln Arg Arg Xaa
 20 25 30

Asn

<210> 7002
 <211> 54
 <212> PRT
 <213> Homo sapiens

<220>
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6218

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7002

Phe Glu Asn Val Leu Xaa Leu His Xaa Cys Leu Asp Asp Leu Leu Lys
1 5 10 15

Lys Gln His Ser Ala Pro Thr Lys Leu Ile Ser Ser Cys Pro Ala Ser
20 25 30

Ala Ser Val Ser Ile Pro Ala Leu Gly Phe Xaa Xaa Cys Leu Pro Ile
35 40 45

Ser His Asn Gly Ser Phe
50

<210> 7003

<211> 67

<212> PRT

<213> Homo sapiens

<220>

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<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7003

His Glu Val Leu Val His Ser His His Leu Pro Ser Val Pro Gln Arg
1 5 10 15

Phe Thr Leu Ser Leu Met Trp Asp Leu Phe Pro Val Arg Cys His Tyr
20 25 30

Phe Pro Phe Pro Trp Phe Thr Leu Pro His Ile Gly Lys Ala Leu Pro
35 40 45

6219

Ile Ala Phe Gly Lys Gly Lys Met Xaa Lys Xaa Asn Val Leu Xaa Ser
 50 55 60

Leu Cys Val
 65

<210> 7004
 <211> 55
 <212> PRT
 <213> Homo sapiens

<220>
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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7004
 Arg Val Pro Asn Pro Arg His Thr Asp Phe Glu Phe Tyr Leu Thr Gly
 1 5 10 15

Thr Asp Met Leu Arg Leu Ser Asp Trp Glu Ser His Leu Trp Leu Leu
 20 25 30

Pro Cys Xaa Xaa Pro Asn Ser Ser Arg Leu Val Xaa Lys Xaa Xaa Lys

6220

35

40

45

Glu Xaa Ser Leu Gly Leu Gly
50 55

<210> 7005

<211> 70

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)

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<220>

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<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

6221

<220>
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<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7005
Ile Phe Val Val Ala Phe Xaa Leu Gly Leu Gln Asn Lys Ala Asp Phe
1 5 10 15
Xaa Phe Gln Xaa Val Pro Phe Leu Pro Xaa Gln Val Tyr Tyr Xaa Xaa
20 25 30
Val Leu His Xaa Val Phe Lys Lys Gln Pro Thr Ile Xaa Thr His Val
35 40 45
Thr Xaa Leu Cys Leu Pro Gln Phe Phe Gly Ser Leu Ala Thr Leu Val
50 55 60
Xaa His Val Gly Leu Asp
65 70

<210> 7006
<211> 62
<212> PRT
<213> Homo sapiens

<220>
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<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

6222

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7006

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Thr | Asp | Ser | Leu | Val | Gly | Gly | Trp | Gly | His | Glu | Thr | Arg | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Arg | Lys | Pro | His | Cys | Arg | Gln | Thr | Phe | Leu | Asp | Glu | Glu | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Pro | Arg | Val | Pro | Arg | Phe | Xaa | Phe | Phe | Val | Gly | Ile | Gly | Asn | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Phe | Pro | Ser | Xaa | Ala | Ser | Phe | Cys | Thr | Phe | Thr | Val | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | |

<210> 7007

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7007

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Leu | Phe | Thr | Thr | Gly | Met | Cys | Gly | Ile | Cys | Asn | Tyr | Ile | Xaa | Phe |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

6223

Xaa Gly Pro Ile Xaa Gly Leu Ser Phe Leu Glu Leu Ile Ile Leu Pro
 20 25 30

Tyr Tyr Xaa Ile Cys Xaa Ser Gly Ser Ile
 35 40

<210> 7008

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7008

Gly Thr Cys Val Leu Arg Leu Cys Leu His Cys Leu Leu Ser Pro Thr
 1 5 10 15

Lys Leu Ser Ser Pro Pro Pro Val Thr Leu Glu Leu Cys Phe Ile Phe
 20 25 30

Lys Glu Glu Arg Glu Xaa Gly Glu Val Thr Ser Xaa Thr Leu Gln His
 35 40 45

Gly His Gln Phe Phe Trp Asn Asn Leu Gly Gly Ser Thr Cys Phe Trp
 50 55 60

Glu Lys Cys Phe Gly Lys Arg Phe Trp Gly Gly
 65 70 75

<210> 7009

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

6224

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7009

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Asn | Phe | Leu | Asn | Ser | Lys | Lys | Ile | Phe | Ser | Cys | Ser | Leu | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Tyr | Ile | Trp | Phe | Ser | Ala | Tyr | Lys | Ser | Lys | Arg | Ile | Ile | Cys | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Phe | Phe | Lys | Xaa | Val | Phe | Phe | Pro | Asn | Leu | Xaa | Xaa | Asn | Thr | Asn |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ser | Ser | Asn | Gly | Leu | Pro | Xaa | Ser | Ala | Gly |
| | 50 | | | | | 55 | | | | |

<210> 7010

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7010

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Ser | Thr | Ala | Pro | Ser | Gln | Phe | Tyr | Tyr | Thr | Ala | Val | Val | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Tyr | Lys | Phe | Xaa | Ser | Ser | Cys | Pro | Phe | Trp | Pro | Thr | Leu | Ala | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ile | Ile | Leu | Lys | Pro | Gly | Ser | Ser | Ile | Tyr | His | Ala | Phe | Ile | Leu |
| | | | 35 | | | | 40 | | | | | 45 | | | |

6225

Glu Ile Asn Leu Gly Ser Asp Thr Gln Val Arg Ile Ile Tyr Gly Gly
50 55 60

Trp Arg Gln Val Ser Ser Asn Gly Thr Val Lys Gly Glu Asp Phe Ser
65 70 75 80

Thr Thr Leu Trp Arg Gly
85

<210> 7011

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

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<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

6226

<400> 7011

Gly Xaa Gly Arg Pro Asp Pro Ser Glu Xaa Gln Thr Thr Ala Lys His
 1 5 10 15

Gly Gln Glu Arg Lys Cys Ser Gln Ala Tyr Ala Thr Ala Trp Trp Asp
 20 25 30

Leu Thr Val Gly Ser Ser Ser Arg Pro His Leu Pro Leu Pro Thr Thr
 35 40 45

Thr Lys Asn Ser Arg Gln Phe Leu Pro Gly Asn Asn Val Arg Ser Gln
 50 55 60

Ser Pro Glu Thr Gly Met Gly Phe Leu Glu Ser Gly Leu Asp Cys Leu
 65 70 75 80

Leu Trp Lys Thr Leu Pro Arg Ala Pro Xaa Cys Glu Ala Gln Ala Asp
 85 90 95

Gln Asp Pro Ser Asn Trp Xaa Pro Xaa Lys Leu Leu Xaa Pro Xaa Leu
 100 105 110

Val Lys Ile
 115

<210> 7012

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

6227

<400> 7012

Lys Ile Glu Gln Gln Thr Cys Leu Pro Asp Phe Leu Lys His Thr Lys
 1 5 10 15

Ser Tyr Gly Val Cys Ala Ile Ser Gly Met Gln Gly Ile Leu Asp Met
 20 25 30

Pro Gly Val Phe Gly Cys Leu Thr Pro Leu Glu Arg Gly Asn Gly Leu
 35 40 45

Cys Xaa Cys Thr Val Gly Ser Trp Ala Lys Asp Phe Asp Leu Cys Val
 50 55 60

Pro Ile Leu Gly Gln Gly Lys Val Pro Val Ser Thr Cys Arg Xaa Leu
 65 70 75 80

Gly Ile Asn Gln Arg Val Gly Arg Glu Asn Asn Xaa Ser Xaa Cys Leu
 85 90 95

Asp Thr

<210> 7013

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7013

His Glu Leu Pro Ser Lys Ile Ser Phe Glu Ile Ser Ile Leu Leu Leu
 1 5 10 15

Ser Lys Lys Lys Xaa Xaa Phe Xaa
 20

6228

<210> 7014

<211> 27

<212> PRT

<213> Homo sapiens

<220>

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<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7014

Gly Arg Ala Thr Met Asn Ser Xaa Leu Asn Xaa Leu Gly Phe Pro Ile

1

5

10

15

Asn Ser Xaa Lys Asp Ile Xaa Xaa Phe Lys Lys

20

25

<210> 7015

<211> 18

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

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6229

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<220>
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<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7015
Arg Gly Xaa Ala Ser Met Val Asn Xaa His Pro Leu Ser Xaa Asn Phe
1 5 10 15

Trp Asn

<210> 7016
<211> 66
<212> PRT
<213> Homo sapiens

<220>
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<220>
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<220>
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<222> (31)
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<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6230

<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (54)
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<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7016
Ile Val Gln Asn Thr Leu Ser Asn Lys Asn Arg Val Tyr Ile Leu Leu
1 5 10 15
Lys Leu Ile Gln Asn Ile Ser Pro Gly Xaa Xaa Thr Phe Trp Xaa Leu
20 25 30
Gly Tyr Thr Leu Thr Asn Phe Lys Pro Val Lys Ser Xaa Gln Ser Leu
35 40 45
Phe Ser Xaa Xaa Met Xaa Phe Asn Leu Lys Phe Thr Thr Xaa Arg Leu
50 55 60
Pro Arg
65

<210> 7017
<211> 46
<212> PRT
<213> Homo sapiens

<220>
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

6231

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7017
 Gln Ala Phe Gly Lys Ser Leu Gln Ile Leu Xaa Pro Pro Phe Tyr Lys
 1 5 10 15
 Glu Arg Ala Gly Leu Val Ile Cys Pro Xaa Pro Phe Pro Gly Xaa Ile
 20 25 30
 Xaa Thr Ser Thr Val Tyr Cys Xaa Val Leu Ser Xaa Phe Gln
 35 40 45

<210> 7018
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (11)
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<220>
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<220>
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 <222> (29)

6232

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7018

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asp | Thr | Asp | Thr | Xaa | Ile | Tyr | Cys | Ile | Xaa | Gly | Asn | Arg | Gly | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Pro | Leu | Arg | Leu | Pro | Gly | Asn | Arg | Phe | Leu | Gly | Xaa | Met | Val | Pro |
| | | | 20 | | | | | 25 | | | | | | 30 | |

Glu

<210> 7019

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7019

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Pro | Val | His | Arg | Pro | His | Arg | Gly | His | Xaa | Xaa | Trp | Pro | Gly | Cys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Ser | Cys | Gly | Asp | Arg | Ser | Cys | Gly | Arg | Trp |
| | | | 20 | | | | | 25 | | | |

<210> 7020

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

6233

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7020

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Xaa | Gly | Thr | Ser | Xaa | Gly | Val | Pro | Ser | Lys | Glu | Ala | Thr | Val |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asp | Leu | Lys | Xaa | Lys | Xaa | Xaa | Asp | Gln | Ile | Met | Val | Thr | Val |
| | | 20 | | | | | 25 | | | | | 30 | | |

<210> 7021

<211> 25

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

6234

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7021

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Gly | Glu | Ala | Ile | Asn | Xaa | Leu | Xaa | Arg | Phe | Asp | His | Ile | Tyr |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Lys | Xaa | Leu | Xaa | Leu | Glu | Ile | Pro |
| | | | 20 | | | | 25 | |

<210> 7022

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7022

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Val | Cys | Xaa | Cys | Xaa | Phe | Leu | Pro | Val | Ser | Cys | Leu | Ser | Val | Asp |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

6235

1 5 10 15
 Ile Lys Gly Val Leu Val Ser Leu Lys Met Thr Ile Val Ser Ser Val
 20 25 30
 Ser Xaa Phe His Val Asn Leu Gln Leu Gly Thr Pro Leu Gln Lys Arg
 35 40 45
 Lys Ser Xaa Gly Arg Met Arg Glu Arg Lys Glu Xaa Lys Xaa Asp Cys
 50 55 60
 Ile Gly Pro Lys Gly Phe Pro Leu Ile Arg
 65 70

<210> 7023

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7023

Val Asp Leu Arg Gly Val Lys Glu Ile Asn Lys Gly Ile Phe Val Pro
 1 5 10 15

Xaa Phe Pro Trp Lys Gly Ser Gln Met Ala Ile Gly Glu Met Xaa Gly

6236

20

25

30

Met Asp Thr Xaa Pro Arg Ala Ala Ser Xaa Trp Xaa
35 40

<210> 7024

<211> 17

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7024

Pro Val Leu Met Xaa Leu Lys Val Gly Asp Gln Xaa Pro Gly Leu Asn
1 5 10 15

Val

<210> 7025

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

6237

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7025
 Cys Trp Gly Ser Lys Trp Gly Asp Gly Glu Leu Gly Ser Pro Xaa Ser
 1 5 10 15
 Lys Gly Val Phe Leu Glu Thr Xaa Met Phe Trp Xaa Gln Arg Ala Xaa
 20 25 30
 Xaa Gly

<210> 7026
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7026
 Gly Arg Asn Leu Ile Lys Tyr Leu Xaa Val Arg Glu Ala Gly Arg Thr
 1 5 10 15

6238

Leu Glu Ser Tyr Ile Ser Ser Glu Tyr Gln Met Xaa Xaa Leu Arg Met
 20 25 30

Ser His Gln Ile Leu Cys Xaa Lys Tyr Ile Gly Ser Tyr Leu Thr His
 35 40 45

Tyr Ile Gly
 50

<210> 7027

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7027

Cys Leu Xaa Leu Arg Thr Leu Arg Ala Gly Tyr Gly Arg Glu Lys Lys
 1 5 10 15

Asn Xaa His Lys Asn Glu Ser Tyr Ser Lys Asn Thr Gly Pro Lys Lys
 20 25 30

Ser Phe Tyr Leu Lys Lys Leu Lys Cys Leu Ser His Tyr Lys Phe Leu
 35 40 45

Gly Leu Xaa Phe Phe Pro
 50

<210> 7028

<211> 33

<212> PRT

<213> Homo sapiens

6239

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7028
Leu Arg Leu Val Ile Asn Pro Trp Xaa Leu Phe Ala Thr Glu Asn Xaa
1 5 10 15
Leu Val Leu Xaa Thr Leu Val Phe Ser Xaa Xaa Pro Trp Ile Thr Trp
20 25 30

Lys

<210> 7029
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

6240

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (53)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7029
 Ala Glu Val Phe Xaa Thr Ala Ser Asp Lys Lys Ile Val Ser Leu Trp
 1 5 10 15
 Tyr Thr Pro Lys Ser Ser Ala Phe Lys Glu Ser Gln Thr Ile Thr Tyr
 20 25 30
 Leu Ser Pro Leu Leu Phe Pro Pro Xaa Gln Ala Gly Phe Ile Xaa Val
 35 40 45
 Tyr Leu Gly Phe Xaa Ser Ile His Arg Gly Thr Asp Ser Val Leu Ser
 50 55 60
 Xaa Ile Leu Lys Xaa Tyr Trp Phe Ile Ile Ala His Phe Tyr
 65 70 75

<210> 7030
 <211> 67
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

6241

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7030

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gly | Ser | Phe | Leu | Glu | Trp | Leu | Leu | Xaa | Val | Gly | Ala | Glu | Ala | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | His | Pro | Ser | Ala | Trp | Asp | Thr | Pro | Arg | Arg | Arg | Gly | Arg | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Glu | Val | Gly | Gly | Leu | Pro | Leu | Ala | Leu | Pro | Ser | Leu | Xaa | Leu | His |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gly | Gly | Gly | Leu | Glu | Xaa | Xaa | Thr | Gly | Xaa | Leu | Ile | Val | Lys | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | |
|-----|-----|-----|
| Phe | Leu | Phe |
| 65 | | |

<210> 7031

<211> 25

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

6242

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7031
Val Pro Xaa Val Xaa Ile Pro Thr Leu Phe His Ile Phe Xaa Lys Cys
1 5 10 15
Gly Val Phe Phe Leu Xaa Ala Trp Phe
20 25

<210> 7032
<211> 32
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7032
Gly Thr Gly Arg Glu Arg Thr Ser Leu Gln Phe Phe Phe Phe Phe Phe
1 5 10 15
Phe Lys Asn Trp Gly Gly Xaa Leu Gly Phe Xaa Lys Gly Xaa Gly Pro
20 25 30

6243

<210> 7033

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7033

Ala Asp Leu Ser Pro Arg Xaa Leu Pro Tyr Tyr Gly Arg Glu Xaa Gly

1

5

10

15

Leu Xaa Leu Leu Xaa Phe Ser Gly Lys Glu Ser Leu Gln Xaa Ser Met

20

25

30

Ser Leu Gly Ser Phe Arg Arg Arg Xaa Glu Pro Arg Leu Ala Gly Arg

35

40

45

Pro

<210> 7034

6244

<211> 17
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7034
 Gly Thr Arg Phe Phe Phe Phe Phe Phe Xaa Xaa Asn Xaa Xaa Leu Phe
 1 5 10 15

Xaa

<210> 7035
 <211> 23
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (22)

6245

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7035

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Glu | Leu | Glu | Phe | Phe | Phe | Phe | Phe | Phe | Gln | Arg | Gly | Gly | Glu | Val |
| 1 | | | | 5 | | | | | | 10 | | | | 15 | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Arg | Gly | Leu | Ser | Xaa | Xaa |
| | | | 20 | | | |

<210> 7036

<211> 75

<212> PRT

<213> Homo sapiens

<400> 7036

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Glu | Arg | His | Glu | Lys | Leu | Arg | Asn | Tyr | Thr | Lys | His | Ser | Tyr | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ser | Gly | His | Gln | Asp | Asn | Gln | Lys | Ile | Ser | Gln | Ser | Leu | Pro | Lys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Glu | Lys | Lys | Ser | His | Ile | Gln | Arg | Ile | Arg | Asn | Leu | Asn | Gly | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ile | Leu | Lys | Ala | Asn | Phe | Glu | Val | Arg | Ala | Gln | Arg | Lys | Gln | Glu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Asn | Ser | Glu | Gly | Lys | Gln | Phe | Leu | Ser |
| 65 | | | | | 70 | | | | | 75 |

<210> 7037

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6246

<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)

6247

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7037

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ser | Gln | Ser | Lys | Xaa | Xaa | Pro | Gly | Phe | Arg | Ser | Tyr | Pro | Xaa | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Tyr | Met | Val | Leu | Val | Ser | Ile | Phe | Cys | Xaa | Phe | Xaa | Tyr | Phe | Gln |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ser | Leu | Xaa | Trp | Tyr | Tyr | Met | Val | Lys | Xaa | Lys | Leu | Phe | Phe | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asp | Gln | Gly | Cys | Xaa | Ser | Ser | Pro | Cys | Leu | Xaa | Ser | Val | Pro | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Val | Phe | Trp | Gln | His | Ser | Leu | Val | Ala | Ala | Gly | Val | Val | Lys | Phe |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Pro | Glu | Lys | Ala | Xaa | Xaa | Lys |
| | | | | 85 | | | |

<210> 7038

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7038

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Ala | Leu | Phe | Tyr | Tyr | Ser | Arg | Phe | Asn | Asp | Asn | Arg | Leu | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

6248

Cys Leu Ser Phe Asp Ile Leu Gln Ile Ser Lys Cys Ile Leu Leu His
20 25 30
Leu Glu Gly Asn Phe Val Val Leu Arg Lys Cys Xaa Gln Lys Met Lys
35 40 45

<210> 7039

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

6249

<220>
 <221> SITE
 <222> (89)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (90)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (93)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (94)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7039
 Glu Asp Leu Tyr Tyr Lys Ile His Val Phe Thr Ser Val His Gly Thr
 1 5 10 15
 Phe Ser Lys Ile Asp His Met Ile Gly His Lys Thr Ser Leu Ser Lys
 20 25 30
 Phe Lys Lys Ile Lys Ile Ile Leu Ser Thr Leu Ser Glu His Ile Gly
 35 40 45
 Ile Lys Ile Arg Lys Gln Leu Xaa Lys Gly Thr Leu Gln Asn His Lys
 50 55 60
 Ile Cys Ala Xaa Xaa Thr His Xaa Leu Gln Ile Lys Gly Leu Xaa Xaa
 65 70 75 80
 Val Leu Pro Ala Xaa Gly Lys Gln Xaa Xaa Ala Gly Xaa Xaa Lys Pro
 85 90 95
 Gly Phe Cys

<210> 7040
 <211> 63
 <212> PRT
 <213> Homo sapiens

<220>

6250

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7040

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Ser | Pro | Leu | Leu | Leu | Trp | Lys | Val | Lys | Phe | Leu | Asp | Pro | Arg |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Asn | Phe | Lys | Ile | Val | Asn | Leu | Ile | Met | Ser | Gly | Gly | Asn | Leu | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Thr | Leu | Cys | Ser | Thr | Ser | Leu | Val | Ala | Leu | Cys | Leu | Xaa | Met |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Phe | Arg | Leu | Pro | Val | Gln | Lys | Met | Glu | Asp | Ile | Lys | Leu | Cys |
| | 50 | | | | | 55 | | | | | 60 | | | |

<210> 7041

<211> 17

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7041

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Glu | Lys | Glu | Trp | Asn | His | Val | Lys | Phe | Ser | Val | Xaa | Pro | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

Xaa

<210> 7042

<211> 38

<212> PRT

6251

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7042

Xaa Lys Thr Xaa Phe Leu Gly Leu Xaa Leu Cys Ser Leu Leu Gln Asp

1

5

10

15

Leu Leu Cys Ser Val Asn Ile Xaa Cys Trp Val Gln Leu His Ala Pro

20

25

30

Cys Cys Xaa Phe Thr Cys

35

<210> 7043

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6252

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7043

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Pro | Gln | Ala | Gln | Pro | Val | Ser | Arg | Leu | Gln | Leu | Arg | Pro | Leu | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Leu | Tyr | Val | Val | Gln | Ser | Glu | Ser | Pro | Ser | Gln | Ser | Thr | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Xaa | Leu | Leu | Cys | Phe | Lys | Pro | Phe | Xaa | Gly | Ser | Tyr | Phe | Gln |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asp | Glu | Val | Gln | Ala | Cys | Xaa | Arg | Ala | Val | Arg | Val | Thr | Trp | Pro |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Asp | Pro | Pro | Leu | Ile |
| | 65 | | | |

<210> 7044

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7044

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Xaa | Xaa | Ile | Arg | Ala | Ala | Leu | Glu | Leu | Gly | Tyr | Met | Ala | Asn | Ile |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ser | Lys | Phe | Ser | Glu | Leu | Asn | Leu | Lys | Phe | Gln | Gly | Tyr | Ala | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Arg | Lys | Ser | Thr | Leu | Ser | Arg | Asn | Ile | Val | Leu | Ala | Asn | Ile |
| | | 35 | | | | | | 40 | | | | 45 | | | |

6253

His Tyr Lys Leu Ser Leu Phe
 50 55

<210> 7045

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7045

Ser Arg Xaa Ile Lys Leu Gln Leu Arg Gly Glu Lys Trp Val Thr Pro
 1 5 10 15

Gly Arg Ile His Leu Gly Trp Pro Ser Gly Arg Thr Glu Phe Thr Lys
 20 25 30

Leu Thr Xaa Ser Leu Val Xaa Gly Ile Tyr Xaa Gly Arg Xaa
 35 40 45

<210> 7046

<211> 60

<212> PRT

<213> Homo sapiens

6254

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (59)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7046
 Lys Phe Ser Ala Gly Gln Thr Lys His Ile Cys Glu Leu Asn Val Glu
 1 5 10 15
 Val Ile His Leu Lys Pro Leu Leu Gly Xaa Phe Phe Ser Thr Glu Phe
 20 25 30
 Ser Gln Leu Ser Arg Val Gly Thr Tyr His Lys Gly Xaa Lys Arg Val
 35 40 45
 Val Pro Arg Gly Pro Val Gly Val Gly Val Xaa Pro
 50 55 60

<210> 7047
 <211> 72
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids

6255

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7047
 Thr Ala Xaa Cys Ala Lys Leu Ala Lys Gly Trp Cys Ile Trp Gln Gly
 1 5 10 15

Ser Ile Leu Ile His Cys His Phe Phe Phe Phe Gly Xaa Xaa Xaa Ser
 20 25 30

6256

Pro His Xaa Xaa Xaa Glu Lys Lys Pro Gly Arg Lys Gly Xaa Glu Xaa
 35 40 45

Glu Xaa Phe Phe Pro His Leu Ala Leu Leu Ser Xaa Glu Arg Leu Gly
 50 55 60

Pro Pro Val Phe Phe Pro Xaa Pro
 65 70

<210> 7048

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7048

Met Gln Gly Val Pro Leu Asn Gly Tyr Trp Cys Asn Pro Gly Gln Lys
 1 5 10 15

Ile Val Val Val Trp Xaa Arg Ile Met Gly Ser Arg Phe Gly Glu Thr
 20 25 30

Gly Xaa Glu Leu Gly Arg Thr Arg Lys
 35 40

<210> 7049

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6257

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7049

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Val | Lys | Leu | Ser | Val | Thr | Val | Tyr | Thr | Ser | Val | Ser | Val | Thr | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asn | Val | Ser | Leu | Leu | Leu | Gln | Met | His | Cys | Ile | Gly | Lys | Ala | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Gly | Ile | His | Arg | Thr | Gly | Ser | Gln | Asn | Ile | Xaa | Gln | Val | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Val | Gln | Gly | Asn | Gly | His | Xaa | Tyr | Gly | Ser | Ser |
| | 50 | | | | | 55 | | | | | 60 |

<210> 7050

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7050

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Phe | Phe | Gly | Thr | Arg | Arg | Ser | Pro | Arg | Thr | Glu | Ala | Xaa | Gln | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Pro | Leu | Xaa | Leu | Pro | Val | Asn | Lys | Asn | Val | Val | Gly | Lys | Met | Gln |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Val | Gly | Trp | Ile | His | His | Leu |
| | | 35 | | | | | 40 |

<210> 7051

6258

<211> 65
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7051
 Ser Leu Xaa Xaa Leu Ser His Thr His Leu Leu Thr Ile Glu Thr Gly
 1 5 10 15
 Asn Leu Xaa Ser Leu Leu Lys Gly Tyr Ser Glu Ala Thr Trp Ala Val
 20 25 30
 Xaa Lys Thr Ile His Lys Gln Tyr Gly Met Phe Val Ser Asp Asn Arg
 35 40 45
 Leu Gly Tyr Pro Leu Thr Xaa Trp Asn Pro Ala Ser Ala Leu Gly Ser
 50 55 60

Pro
 65

<210> 7052
 <211> 50
 <212> PRT
 <213> Homo sapiens

6259

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7052

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Arg | Gln | Val | Leu | His | Gln | Glu | Arg | Arg | Leu | Leu | Arg | Arg | Gly | Glu |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Gln | Ile | Leu | Leu | Ser | Phe | Tyr | Leu | Thr | Asp | Ile | Phe | Ser | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Xaa | Pro | Ser | Asn | Leu | Asn | Asn | Ile | Tyr | Trp | Thr | Leu | Leu | Thr | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | |
|-----|-----|
| Phe | Thr |
| | 50 |

<210> 7053

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7053

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Thr | Phe | Ser | His | Val | Asn | Leu | Xaa | Leu | Ser | Ser | Gln | Val | Gln | Leu |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Xaa | Leu | Pro | Val | Gln | Tyr | Leu | Phe | Arg | Thr | Gln | Ser | Ser | Xaa | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | |
|-----|-----|
| Val | Asn |
|-----|-----|

6260

<210> 7054

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7054

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Glu | Pro | Ala | Trp | Pro | His | Leu | Leu | Ala | His | Gly | Xaa | Gly | Cys | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Glu | Ala | Leu | Ala | Xaa | Ser | Tyr | Trp | His | Ser | Ser | Phe | Xaa | Arg | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ile | Leu | Thr | Glu | Ser | Phe | Cys | Arg | Ser | Cys | Glu | Leu | Asn | Tyr | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Ser | Lys | Leu | Trp | Lys |
| | | 50 | | |

<210> 7055

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

6261

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7055
 Trp Lys Trp Ala Glu Asn Xaa Pro Phe Pro Arg Leu Gln Cys Val Arg
 1 5 10 15
 Xaa Lys Glu Arg Gly Lys Lys His Asn Gly Leu Met Val Glu Asp Arg
 20 25 30
 Phe Ile Xaa Lys Lys Thr Asn Pro Arg Xaa Ala Ser Gly
 35 40 45

<210> 7056
 <211> 20
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7056
 Glu Ala Arg Lys Xaa Pro Leu Lys Ser Leu Phe Lys Ser Thr Gly Gln
 1 5 10 15
 Glu Gly Xaa Xaa
 20

6262

<210> 7057

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7057

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | His | Cys | Thr | Gln | Pro | Pro | Leu | Phe | Leu | Phe | Lys | Cys | Xaa | Val | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Pro | Asn | Gln | Pro | Phe | Ser | Thr | Ala | Ser | Ile | Ile | Lys | Ser | Thr | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Asp | Val | Leu | Ser | Leu | Asn | Met | Asn | His | Asp | Ile | Phe | Ser | Tyr | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Phe | Asp | Met | Asn | Ser | His | Thr | Tyr | Lys | Asn | Ser | Val | Tyr | Leu | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Phe | Tyr | Glu | Asn | Tyr | Phe | Arg | Phe | Asn | Phe | Ile | Asp | Glu | Ala | Phe |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Arg | Lys | Glu | Thr | Leu | Leu | Tyr | Leu | Ala | Asp | Val | Ser | Val | Gln | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ile | Gln | Gln | Asn | Phe | Leu |
| | | | | | | 100 |

<210> 7058

<211> 31

<212> PRT

<213> Homo sapiens

<220>

6263

<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7058
Arg Val Gln Arg Pro Arg Gly Arg Xaa Cys Leu Ile Phe Ser Asn Asn
1 5 10 15
Ser Gln Glu Ala Arg Trp Leu Gln Xaa Val Lys Glu Arg Arg Xaa
20 25 30

<210> 7059
<211> 111
<212> PRT
<213> Homo sapiens

<220>
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<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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6264

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (34)

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<222> (43)

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<222> (64)

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6265

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7059

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Arg | Leu | Ser | Xaa | Leu | Ala | Cys | Lys | Xaa | Thr | Ser | Arg | Xaa | Val | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Leu | Gln | Arg | Ser | Xaa | Gly | Ala | Ala | Pro | Pro | Pro | Ala | Lys | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Xaa | Xaa | Lys | Xaa | Ala | Glu | Xaa | Gly | Xaa | Ala | Thr | Ala | Gly | Pro |
| | 35 | | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Arg | Glu | Gln | Leu | Lys | Val | Asp | Leu | Asp | Asp | Leu | Val | Ala | Ala | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Leu | Tyr | Cys | Gly | Glu | Leu | Met | Ile | Arg | Ser | Ile | Asp | Arg | Pro | Xaa |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asp | Pro | Lys | Arg | Tyr | Glu | Val | Gly | Xaa | Ala | His | Leu | Xaa | Val | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Xaa | Pro | Phe | Asn | Gly | Gly | Trp | Ala | Met | Gly | Ser | Met | Asp |
| | | | 100 | | | | | 105 | | | | | 110 | |

<210> 7060

<211> 37

<212> PRT

<213> Homo sapiens

<220>

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<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6266

<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7060
Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Xaa Ser Xaa
1 5 10 15
Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Xaa Thr Gly Lys Thr
20 25 30
Gln Gly Ser Pro Xaa
35

<210> 7061
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

6267

<220>
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<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6268

<221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (53)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (68)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 7061
 Thr Thr Ser Trp Gly Xaa Pro Gly Phe Ile Xaa Xaa Ala Xaa Xaa Asn
 1 5 10 15
 Pro Xaa Lys Xaa Phe Xaa Gly Phe Xaa Leu Xaa Lys Phe Phe Trp Pro
 20 25 30
 Phe Lys Lys Xaa Lys Lys Ile Xaa Asn Xaa Xaa Pro Xaa Phe Leu Lys
 35 40 45
 Lys Phe Xaa Pro Xaa Leu Ser Pro Pro Trp Glu Ile Phe Gly Leu Lys
 50 55 60
 Phe Asn Leu Xaa Phe Trp Gly Gly Phe Gly Gly Lys Lys Phe
 65 70 75

 <210> 7062
 <211> 24
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

6269

<400> 7062

Ala Ala Arg Ala Ala Xaa Gly Gly Ala Arg Tyr Pro Xaa Arg Pro Ile
 1 5 10 15

Met Xaa Arg Ile Thr Ile His Trp
 20

<210> 7063

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (77)

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<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7063

Cys Ile Leu Xaa Gly Val Gly Asn Met Val Val Gly Met Ala Gly Ala
 1 5 10 15

His Thr Thr Lys Leu Leu Gly Pro Asp Pro Ser Gly Asp Thr Ser Leu
 20 25 30

Val Pro Leu Val Asn Ile Trp Val Gly Leu Leu Leu Thr Val Met Thr
 35 40 45

Ala Val Ser Val Gly Met Val Leu Ile His Gly Val Thr Val Ile Thr
 50 55 60

Thr Met Asp Thr Xaa Trp Trp Pro Thr Gly Tyr Cys Xaa Asp Trp Leu
 65 70 75 80

6270

His Xaa Met Asp Val Ile Gly
85

<210> 7064

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6271

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7064

Pro Leu Xaa Gly Gly Ala Asn Leu Gly Trp Asp Leu Arg Leu Ser Xaa
1 5 10 15

Gly Ile Val Arg Glu Arg Xaa Phe Phe Pro Lys Ala Cys Phe Leu Asn
20 25 30

Tyr Pro Leu Gly Val Asn Xaa Thr Ile Xaa Thr Pro Pro His Thr Leu
35 40 45

Pro Phe Glu Gln Phe Ser Gln Leu His Leu Val Thr Ser Ile Ile Ser
50 55 60

Pro Leu Pro Lys Phe Arg Phe Xaa Ile Xaa Xaa Xaa Xaa Pro His Pro
65 70 75 80

Arg Gly Lys Ser

<210> 7065

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6272

<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7065
Arg Xaa Asp Val Asn Cys Leu Lys Ser Gly Trp Ala Glu Asp Leu Gly
1 5 10 15
Ser Xaa His Ala Ile Trp Asn Thr Asp Xaa Pro Xaa Leu Ala Xaa Val
20 25 30
Gly Leu Phe Leu Xaa Phe His Thr Ser Pro Arg Pro Leu Gly Thr Ser
35 40 45
Ala Lys Leu
50

<210> 7066
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

6273

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7066

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ile | Ser | Leu | His | Xaa | Trp | Glu | Xaa | Xaa | Arg | Glu | Leu | His | Arg | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Phe | Xaa | Leu | Xaa | Leu | Gly | Thr | Ser | Pro | Gly | Cys | Asp | Ala | Asn |
| | | | 20 | | | | 25 | | | | | | 30 | | |

Ile

<210> 7067

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7067

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | His | Glu | Gly | Thr | Arg | Gly | Gly | Pro | Val | Pro | Asn | Ser | Pro | Tyr | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ser | Tyr | Tyr | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp | Trp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Glu | Thr | Gln | Lys | Xaa | Xaa |
| | | | 35 | | |

<210> 7068

<211> 38

<212> PRT

<213> Homo sapiens

6274

<220>
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 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7068
 Arg His Xaa Gly Thr Thr Gly Gly Pro Val Pro Asn Ser Pro Xaa Ser
 1 5 10 15
 Xaa Ser Tyr Tyr Asn Ser Leu Ala Val Val Xaa Gln Arg Arg Asp Trp
 20 25 30
 Asp Xaa Pro Xaa Leu Pro
 35

<210> 7069
 <211> 75
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (36)

6275

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7069

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Phe | Tyr | Arg | Ile | Val | Leu | Cys | Leu | His | Phe | Thr | Ser | Leu | Ser | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gln | Cys | Phe | Ala | Val | Trp | Val | Lys | Leu | Ile | Pro | Phe | Gln | Phe | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Pro | Leu | Xaa | Xaa | Thr | Ala | Phe | Thr | Pro | Glu | Lys | Thr | Phe | Lys | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Phe | Pro | Leu | Tyr | Xaa | Trp | Glu | Phe | Pro | Glu | Asn | Phe | Pro | Xaa | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ala | Leu | Gly | Trp | Val | Phe | Pro | Phe | Xaa | Xaa |
| 65 | | | | | 70 | | | | | 75 |

<210> 7070

<211> 54

<212> PRT

<213> Homo sapiens

<220>

6276

<221> SITE

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<222> (12)

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<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7070

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Trp | Cys | Phe | Xaa | Ala | Ser | Thr | Thr | Ser | Ser | Xaa | Leu | Ile | Leu | Ile |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Thr | Leu | Xaa | Glu | Ile | Trp | Xaa | Pro | Xaa | Ile | Leu | Ser | Asp | Phe | Xaa |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Thr | Gln | Leu | Leu | Asn | Cys | Gln | Ala | Arg | Xaa | Ser | Leu | Gly | Gln | Gly |
| | | 35 | | | | | 40 | | | | | | 45 | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Xaa | Glu | Asn | Pro |
| | | | | | 50 |

6277

<210> 7071
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7071
Ile Asp Ile Ala Val Ile Lys Lys Ala Ile Asn Gly Gln Val Val Leu
1 5 10 15
Ile Ile Ile Cys Phe Xaa Leu Ile Tyr Xaa Cys Xaa Pro Val His Xaa
20 25 30

Ile Xaa

<210> 7072
<211> 118
<212> PRT
<213> Homo sapiens

<220>

6278

<221> SITE
 <222> (95)
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 <220>
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 <222> (101)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (104)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (113)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (118)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 7072
 Asn Ile Leu Gly Ile Val Gly Thr Leu Ser Ser Val Phe Leu Lys Pro
 1 5 10 15

 Ala Trp Phe Pro Phe Ala Ser Phe Ser Val Val Asn Thr Cys Ser Leu
 20 25 30

 Ser Gly Gly Lys Met Gly Ser Ser Ser Tyr Trp Cys Pro Cys Ser Phe
 35 40 45

 Lys Leu Val Asn Gln Asn Pro Ser Ile Thr Thr Phe Pro Val Ser Trp
 50 55 60

 Trp Asp Trp Ile Trp Thr Val Leu Tyr Val Cys Leu Leu Leu His Gln
 65 70 75 80

 Ser Cys Met Gly Ala Met Ile Phe His Ala Ser Leu Gly Leu Xaa Ser
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 Ile Phe His Glu Xaa Pro Leu Xaa Asn Glu Phe Ile Phe Tyr Lys Phe
 100 105 110

 Xaa Asn Ser Leu Ala Xaa
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6279

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 Asn Asn Tyr Phe Pro Phe Cys Cys Ile Val Pro Ser Lys Xaa Ile Cys
 35 40 45
 Ala Ala Gln Ile Met Gly Trp Val Xaa Pro
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 Leu Xaa Xaa Arg Xaa Arg Pro Phe Pro Leu Gly Gln Pro Lys Gly Xaa
 20 25 30
 Xaa Xaa Xaa Arg Xaa Lys Lys Pro Leu Gly Ser Gln Ile Pro Xaa Xaa
 35 40 45
 Lys Asp Leu Xaa Lys Thr Gln Xaa Arg Xaa Gln Xaa Pro Pro Leu Thr
 50 55 60
 Gln Arg Xaa Lys Phe Gly Gly Gly Ser Lys Arg Gln Phe Xaa Phe Leu
 65 70 75 80
 Gly Gln Lys Phe Xaa Gln Phe Leu Gly Asn Gln Lys Lys Xaa Gly Leu
 85 90 95
 Lys Ile Xaa Phe Leu Lys Glu Pro Ser Leu Pro Xaa Arg Xaa Ile Phe

6284

| 100 | 105 | 110 |
|---|-----|-----|
| Lys Xaa Pro His Ile Phe Tyr Xaa Xaa Glu Lys Lys Xaa Thr Xaa Pro | | |
| 115 | 120 | 125 |
| Leu Gly Xaa Xaa Lys Ser Xaa | | |
| 130 | 135 | |

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<211> 118

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6286

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<400> 7075

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Pro | Gly | Xaa | Ala | Leu | Cys | Pro | Glu | Xaa | Thr | Gln | Gln | Pro | Xaa | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Asn | Xaa | Val | Gly | Ile | Leu | Gln | Asn | Xaa | Ser | Xaa | Xaa | Lys | Leu |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Lys | Pro | Val | Leu | Lys | Leu | Ile | Pro | Trp | Pro | Gly | Xaa | Ser | Ile | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Pro | Ala | Asn | Asp | Pro | Ser | Xaa | Ile | Ala | Leu | Asn | Asp | Xaa | Pro |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Xaa | Thr | Ile | Arg | Gln | Gly | Arg | Glu | Gly | Ser | Lys | Thr | Xaa | Xaa | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Phe | Thr | Gln | Xaa | Lys | Ile | Gln | Xaa | Trp | Gly | Pro | Pro | Lys | Leu |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Leu | Gly | Xaa | Xaa | Tyr | Arg | Lys | Val | Thr | Pro | Glu | Leu | Thr | Gly |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Arg | Gly | Leu | Lys | Ile | Phe |
|-----|-----|-----|-----|-----|-----|

6287

115

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<211> 41

<212> PRT

<213> Homo sapiens

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1

5

10

15

Ser Xaa Val Val Gly Lys Phe Xaa Ile Thr Phe Leu Tyr Lys His Val

20

25

30

6288

Glu Ser Xaa Arg Ile Gln Ser Xaa Tyr
35 40

<210> 7077

<211> 64

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6289

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<400> 7077

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| Pro | Xaa | Leu | Val | Pro | Xaa | Gly | Glu | Ile | Phe | Gly | Asp | Pro | Trp | Gly | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Xaa | Ala | His | Arg | Xaa | Lys | Ser | Pro | Cys | Xaa | Gly | Gly | Ser | Gln | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Ala | Arg | Lys | Thr | Gly | Pro | Pro | Leu | Xaa | Xaa | Phe | Xaa | Lys | Gly | Arg |
| | | | 35 | | | | | 40 | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Val | Xaa | Ile | Ser | Xaa | Gly | Ile | Ser | Lys | Thr | Leu | Xaa | Arg | Lys | Ser |
| | | 50 | | | | 55 | | | | | 60 | | | | |

<210> 7078

<211> 34

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6290

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<400> 7078

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Trp | Gly | Lys | Leu | Thr | Phe | Leu | Xaa | Gln | Asn | Ser | Lys | Ala | Pro | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Val | Lys | Gly | Arg | Pro | Phe | Arg | Val | Lys | Xaa | Xaa | Lys | Pro | Arg | Ala |
| | | | 20 | | | | | 25 | | | | | | 30 | |

Pro Ser

<210> 7079

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<400> 7079

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Ser | Ser | Gln | Ser | Pro | Ser | Asp | Asp | Xaa | Ser | Gly | Phe | Gln | Trp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Pro | Arg | Leu | Lys | Leu | Ser | Gly | Phe | Pro | Pro | Thr | Phe | Ser | Pro | Lys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Glu | Ile | Ala | Met | Arg | Phe | Ala | Thr | Ala | Gly | Ser | Pro | Ser | Val | Arg |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Arg | Leu | Cys | Tyr | Pro | Trp | Cys | Leu | Gly | Ala | Val | Phe | Leu | Thr |
| | | 50 | | | | | 55 | | | | 60 | | | | |

| | |
|-----|-----|
| Val | Ile |
| 65 | |

6291

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<213> Homo sapiens

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<400> 7080

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| Xaa | Lys | His | Xaa | Ile | Xaa | Xaa | Thr | Gln | Xaa | His | Pro | Xaa | Phe | Xaa | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Xaa | Val | Leu | Asn | Leu | Gly | Thr | Lys | Xaa | Leu | Pro | Gln | Phe | Phe | Lys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Pro | Xaa | Glu | Leu | Val | Ser | Pro | Ile | Pro | Xaa | Xaa | Asn | Trp | Xaa | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Arg | Xaa | Lys | Lys | Xaa | Gly | Leu | Gly | Pro | Leu | Gly | Leu | Thr | Leu | Gly |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Gly | Leu | Xaa | Xaa | Ser | Pro | Lys | Xaa | Pro | Xaa | Ile |
| 65 | | | | | 70 | | | | | 75 | | |

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<211> 55

<212> PRT

<213> Homo sapiens

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6294

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<400> 7081

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Lys | Lys | Xaa | Xaa | Pro | Phe | Leu | Ala | Xaa | Arg | Gly | Lys | Lys | Asp | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Ala | Phe | Lys | Xaa | Asn | Pro | Pro | Pro | Glu | Lys | Thr | Pro | Gly | Thr |
| | | | 20 | | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Arg | Leu | Asn | Pro | Leu | Lys | Gly | Asn | Gln | Ala | Phe | Lys | Lys | Arg | Lys |
| | | 35 | | | | | 40 | | | | | | 45 | | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ala | Thr | Asn | Pro | Pro | Val | Pro |
| | 50 | | | | | 55 |

<210> 7082

<211> 151

<212> PRT

<213> Homo sapiens

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6295

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6296

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<220>
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6297

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7082

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Xaa | Pro | Cys | Xaa | Ser | Ser | Leu | Gly | Xaa | Pro | Ala | Pro | Arg | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Xaa | Xaa | Trp | Gly | Ser | Phe | Arg | Gly | Ala | Pro | Arg | Lys | Xaa | Lys | Arg | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Pro | Leu | Xaa | Pro | Xaa | Xaa | Leu | Ser | Ser | Pro | His | Gly | Gly | Pro | Phe | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Leu | Lys | Lys | Gly | Xaa | Lys | Leu | Pro | Lys | Pro | Pro | Lys | Pro | Phe | Glu | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Xaa | Arg | Asn | Phe | Pro | Phe | Pro | Pro | Xaa | Xaa | Gly | Gly | Gly | Pro | Xaa | Pro |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Pro | Asn | Phe | Leu | Xaa | Lys | Lys | Xaa | Phe | Pro | Pro | Leu | Gly | Lys | Asp | Leu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Gln | Ile | Gly | Phe | Gly | Gln | Arg | Pro | Leu | Xaa | Ile | Xaa | Asn | Lys | Ala | Thr |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Xaa | Gly | Gly | Lys | Xaa | Thr | Gln | Lys | Ser | Leu | Gly | Gly | Xaa | Thr | Pro | Arg |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Pro | Glu | Xaa | Ala | Pro | Thr | Arg | Pro | Leu | Ala | Phe | Gly | Asn | Gln | Leu | Gly |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Leu | Pro | Asn | Gln | Xaa | Ile | Pro | | | | | | | | | |
| 145 | | | | | 150 | | | | | | | | | | |

<210> 7083

<211> 46

<212> PRT

<213> Homo sapiens

<220>

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6298

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<400> 7083
Arg His Glu Gly Gly Pro Trp Xaa Pro Asn Ser Pro Leu Ser Ala Cys
1 5 10 15
Ser Ser Val Ile Tyr His Ile Xaa Asn Leu Gly Pro Gly Xaa Xaa Phe
20 25 30
Ser Pro Asn Arg Ser Gly Cys Asn Leu Gly Gly Lys Xaa Pro
35 40 45

<210> 7084
<211> 25
<212> PRT
<213> Homo sapiens

<220>
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6299

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<400> 7084

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Lys | Gly | Pro | Xaa | Xaa | Lys | Lys | Gly | Gly | Leu | Ser | Leu | Xaa | Lys | Thr |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Lys | Ile | Trp | Glu | Ile | Lys | Xaa | Phe |
| | | 20 | | | | 25 | | |

<210> 7085

<211> 46

<212> PRT

<213> Homo sapiens

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<220>

<221> SITE

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<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7085

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Arg | Gly | Pro | Pro | Leu | Gly | Lys | Lys | Leu | Glu | Leu | His | Arg | Gly | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Ser | Thr | Thr | Asn | Trp | Ile | Pro | Arg | Ala | Ala | Gly | Xaa | Leu | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Xaa | Ala | Glu | Trp | Tyr | Val | Trp | Ser | Xaa | Ser | Arg | Xaa | Lys |
| | | 35 | | | | | 40 | | | | | 45 | |

6300

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<212> PRT
<213> Homo sapiens

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<220>
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<400> 7086
Xaa Arg Xaa Val Gly Leu Gly Xaa Xaa Val Val Ala Arg Arg Trp Pro
1 5 10 15
Gly Trp Cys Trp Arg Ala Trp Pro Val
20 25

<210> 7087
<211> 116
<212> PRT
<213> Homo sapiens

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6301

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6302

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<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7087

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Val | Pro | Asn | Ser | Ala | Arg | Xaa | Leu | Tyr | Leu | Met | Lys | Leu | Leu | Gly |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Gly | Val | Phe | Pro | Ser | Val | Thr | Xaa | Xaa | Ile | Ser | Trp | Xaa | His | Pro |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ile | Pro | Xaa | Xaa | Xaa | Thr | Thr | Xaa | Asn | Phe | Pro | Xaa | Gly | Gly | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Arg | Val | Lys | Xaa | Cys | Leu | Ile | Leu | Glu | Gln | Lys | Xaa | Phe | Pro |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Gly | Gly | Ser | Asn | Pro | Leu | Trp | Pro | Ile | Met | Phe | Gly | Ser | Arg | Trp |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Pro | Leu | Ala | Trp | Gly | Phe | Leu | Leu | Gly | Asn | Xaa | Ser | Leu | Pro |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Xaa | Xaa | Gly | Thr | Xaa | Pro | Cys | Leu | Ala | Ile | Pro | Leu | Phe | Phe | Gln |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | |
|-----|-----|-----|-----|
| Ser | Ser | Leu | Trp |
| | | 115 | |

<210> 7088

<211> 130

6303

<212> PRT
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6304

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6305

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<220>
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 1 5 10 15
 Gln Gly Phe Lys Xaa Val Trp Xaa Pro Lys Lys Gly Phe Asn Pro Xaa
 20 25 30
 Xaa Asn Leu Xaa Pro Phe Pro Xaa Xaa Phe Gly Glu Thr Xaa Xaa Leu
 35 40 45

6306

Asn Xaa Gly Lys Ile Xaa Xaa Gly Gly Gly Phe Phe Xaa Ile Trp Xaa
 50 55 60
 Phe Pro Pro Pro Lys Xaa Xaa Leu Xaa Lys Lys Thr Pro Pro Pro Xaa
 65 70 75 80
 Phe Phe Xaa Gly Gly Lys Lys Arg Xaa Phe Pro Lys Lys Asn Phe Gly
 85 90 95
 Xaa Xaa Ile Phe Phe Leu Lys Asn Leu Lys Pro Pro Pro Pro Phe Gly
 100 105 110
 Lys Thr Phe Gly Gly Glu Thr Gln Thr Pro Lys Pro Lys Gly Pro Phe
 115 120 125
 Phe Lys
 130

<210> 7089

<211> 74

<212> PRT

<213> Homo sapiens

<220>

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6307

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7089

Thr Leu Glu Arg Ser Leu Gly Leu Xaa Asn Ile Xaa Lys Ile Xaa Glu
1 5 10 15

Trp Ser Trp Ala Leu Lys Xaa Thr Tyr Gln Glu His Gln Glu Asn Ser
20 25 30

Ile Xaa Ile Gln Tyr Lys Ser Tyr Xaa Ser Arg Pro Ile Ile Ser Phe
35 40 45

Glu Leu Glu Lys Pro Asn Gly Glu Pro Leu Thr Gln Ile Asn Thr Leu
50 55 60

Ser Phe Ser Gln Leu Gly Ala Arg His Leu
65 70

<210> 7090

<211> 17

<212> PRT

<213> Homo sapiens

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<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7090

Val Phe Phe Phe Phe Phe Xaa Phe Glu Lys Cys Asn Ile Phe Pro Xaa
1 5 10 15

Phe

<210> 7091

<211> 32

<212> PRT

<213> Homo sapiens

6308

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<220>
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<400> 7091
Ala Arg Ser Xaa Pro Leu Leu Xaa Glu Gln Met Xaa Ala Xaa Pro Pro
1 5 10 15
Lys Val Ala Ala Val Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Xaa
20 25 30

<210> 7092
<211> 82
<212> PRT
<213> Homo sapiens

<220>
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6309

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<400> 7092
 Phe Arg Val Ile Leu Leu Pro Lys Asp Gly Lys Ile Lys Ser Arg Thr
 1 5 10 15
 Lys Ser Asn Xaa Xaa Glu Xaa Xaa Ser Ile Ser Ser Thr Tyr Cys Gly
 20 25 30
 Ile Thr Ala Thr Lys Ala Leu Asp Gly Lys Ile Ile Leu Ser Cys Phe
 35 40 45
 Leu Cys Phe Lys Xaa Ser Pro Arg Ser Asn Val Xaa Gly Leu Gly Thr
 50 55 60
 Gly Ile Ile Xaa Leu Gln Leu Xaa Leu Lys Asn Ser Gly Tyr His Ser
 65 70 75 80

6310

Trp Xaa

<210> 7093

<211> 39

<212> PRT

<213> Homo sapiens

<220>

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<400> 7093

Xaa Leu Xaa Xaa Ser Pro Ile Ile Lys Gly Thr Xaa Ala Gly Xaa Ser

1

5

10

15

Thr Glu Ser Gly Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln

6311

20

25

30

Glu Phe Xaa Thr Ser Xaa Ile
35

<210> 7094

<211> 71

<212> PRT

<213> Homo sapiens

<400> 7094

Arg Met Ser Tyr Leu Lys Gly Met Cys His Leu Leu Cys Asn Cys Ile
1 5 10 15

Pro Thr Arg Ser Tyr Ile Asn Val Leu Arg Gln Gln His Leu Trp Ser
20 25 30

Lys Cys Gln Ala Ser Arg Gly Thr Leu Val Lys Gly Ser Ser Gly Leu
35 40 45

Ile Trp Ile Cys Arg Phe Leu His Phe Cys Tyr Lys Ile Tyr Ser Pro
50 55 60

Leu Lys Leu Pro Leu Val Leu
65 70

<210> 7095

<211> 56

<212> PRT

<213> Homo sapiens

<220>

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<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

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6312

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<400> 7095
 Cys Ala Xaa Ala Xaa Leu Leu Thr Lys Gly Thr Asn Ser Ala Pro Pro
 1 5 10 15
 Pro Lys Val Ala Ala Xaa Leu Glu Leu Val Asp Pro Pro Gly Cys Arg
 20 25 30
 Ser Ser Pro Arg Ala Ala Lys Gln Xaa Xaa Arg Xaa Cys Xaa Cys Arg
 35 40 45
 Gly Val Tyr His Ala Phe Lys Lys
 50 55

<210> 7096
 <211> 37
 <212> PRT
 <213> Homo sapiens

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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7096
 Ala Ala Arg Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile

6313

```

      1           5           10           15
Val Ser Arg Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr
      20           25           30
Gly Xaa Pro Lys Xaa
      35

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<210> 7097

<211> 41

<212> PRT

<213> Homo sapiens

<220>

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$\langle 222 \rangle$ (1)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

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$\langle 222 \rangle$ (10)

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<220>

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<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

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<400> 7097

Xaa Pro His Gln Gln Lys Glu Leu Leu Xaa Ser Met Phe Gly Lys Gln
1 5 10 15

Pro Gly Gln Gly Arg Asn Ser Arg Gly Asn Xaa Lys Met Val Leu Phe
20 25 30

6314

Pro Asn Pro Xaa Xaa Xaa Pro Asn Val
35 40

<210> 7098
<211> 35
<212> PRT
<213> Homo sapiens

<220>
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<220>
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<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7098
Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg
1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Xaa Val Thr Gly Lys Pro
20 25 30

Lys Xaa Xaa
35

<210> 7099
<211> 43
<212> PRT
<213> Homo sapiens

<220>
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<220>
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6315

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (34)

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<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7099

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Asn | Ser | Xaa | Gly | Lys | Val | Thr | His | Trp | Trp | Gly | Ala | Leu | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ser | Gly | Gly | Cys | Arg | Ile | Arg | His | Glu | Leu | Xaa | Pro | Xaa | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Xaa | Tyr | Xaa | His | Leu | Leu | Pro | Pro | Cys | Xaa |
| | | 35 | | | | | 40 | | | |

<210> 7100

<211> 33

<212> PRT

<213> Homo sapiens

<220>

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6316

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7100

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Ala | Arg | Tyr | Pro | Ile | Arg | Pro | Ile | Val | Ser | Arg | Ile | Thr | Ile |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Trp | Pro | Ser | Phe | Tyr | Asn | Val | Val | Thr | Gly | Lys | Asn | Pro | Xaa | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Xaa

<210> 7101

<211> 23

<212> PRT

<213> Homo sapiens

<220>

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<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7101

6317

Ala Arg Ala Glu Phe Gly Thr Arg Phe Phe Phe Phe Xaa Gly Xaa
 1 5 10 15

Leu Phe Xaa Xaa Ile Thr Leu
 20

<210> 7102

<211> 27

<212> PRT

<213> Homo sapiens

<220>

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<222> (4)

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<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7102

Leu Phe Ile Xaa Arg Asp Xaa Gly Ala His Asn Cys Xaa Val Asp Ile
 1 5 10 15

Asp Leu Xaa Cys Glu Asn Ile Ser Thr Leu Glu
 20 25

<210> 7103

<211> 85

<212> PRT

<213> Homo sapiens

<220>

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<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

6318

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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 <222> (79)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7103
 Leu Leu Leu Leu Cys Asn Ala Xaa Arg His Xaa Pro Trp Asp His Val
 1 5 10 15
 Ser Phe Asn Lys His Ile Gln Xaa Ala Leu Xaa Glu Leu Met Ala Ser
 20 25 30
 Lys Ala Gln Xaa Xaa Cys Phe Lys His Ser Ala Ile Ser Xaa His His
 35 40 45

6319

Leu Leu Ala Ser Ile Cys Ser Val Gly Phe Leu Pro Ser Ser Leu Met
 50 55 60

Thr Gly Leu Tyr Xaa Lys Lys Leu Pro Pro Glu Thr Tyr Leu Xaa Leu
 65 70 75 80

Ser Leu Leu Cys Leu
 85

<210> 7104

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7104

Arg Ser Leu Phe His Val Gly Lys Leu Leu Ala Ile Ser Val Ser Cys
 1 5 10 15

Val Tyr Ala Tyr Val Thr Glu Cys Leu Lys Phe Leu Gln Lys Leu Ser
 20 25 30

Lys Gln Lys His Thr Glu Val His Leu Leu Gly Glu Asp Ile Val Gly
 35 40 45

Leu Ile Ile Tyr Pro Gly Thr Leu Arg Asn Glu Met Glu Ala Gly Asn
 50 55 60

Xaa Asp Gly Met Gln Ile
 65 70

<210> 7105

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6320

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7105

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Arg | Ala | Ala | Arg | Gly | Gly | Ala | Arg | Tyr | Pro | Ile | Arg | Pro | Ile |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Arg | Ile | Thr | Ile | His | Trp | Pro | Ser | Phe | Tyr | Asn | Val | Val | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Gly | Lys | Xaa | Lys | Xaa |
| | | | 35 | |

<210> 7106

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

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<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6321

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7106

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Pro | Pro | Cys | Gly | His | His | Pro | Cys | Arg | Ile | Ile | Cys | Glu | Asn | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Xaa | Pro | Arg | His | Xaa | Gly | Gln | Leu | Ser | Phe | Val | Ala | Leu | Glu | Ile |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Gly | Val | Pro | Pro | Leu | Asp | Pro | Arg | Ala | His | Ser | Pro | Ser | Thr | Thr |
| | | 35 | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Val | Ser | Ala | Ala | His | Gln | Ile | Val | Pro | Thr | Lys | Lys | Met | Leu | Cys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Pro | Ile | Cys | Val | Ala | Asn | Arg | His | Gly | Glu | Xaa | Ala | Asp | Phe | Gln |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Arg | Leu | Pro | Xaa | Val | Thr | Xaa | Lys | Pro | Glu | Leu | Gly | Ser |
| | | | | 85 | | | | 90 | | | | | |

<210> 7107

<211> 33

<212> PRT

<213> Homo sapiens

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7107

6322

Gly Val Phe Leu Xaa Thr Ser Gly Ser Xaa Gly Leu Asp Glu Cys Gly
 1 5 10 15

Pro Ser Tyr Gly Xaa Val Pro His Pro Pro Pro Cys Ser Pro Glu Pro
 20 25 30

Pro

<210> 7108

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7108

Trp Cys Gly Gly Ser Trp Glu Leu Cys Ser Phe Gly Pro Gln Thr Pro
 1 5 10 15

Pro Glu Ser Ala Val Cys Ala Phe Ile Asp Val Pro Leu Leu Cys His
 20 25 30

Val Leu Ser Gln Ala Val Ala Ala Ala Cys Ser Ala Leu Phe Phe Ile
 35 40 45

Leu Glu Pro Asp Glu Leu Leu Thr Val Asp Ser Val Ile Ser Phe Arg
 50 55 60

Met Pro Ala Pro Cys Pro Cys Ser Xaa Val Phe Ser Val Leu Pro
 65 70 75

<210> 7109

<211> 27

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6323

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7109

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ser | Xaa | Leu | Val | Tyr | Val | Asn | Phe | Glu | Arg | Leu | His | Asp | Phe | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Xaa | Ile | Asp | Leu | Asp | Ala | Val | Glu | Val | Val |
| | | | 20 | | | | 25 | | | |

<210> 7110

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7110

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Cys | Arg | Met | Xaa | Leu | Xaa | Leu | Lys | Gly | Thr | Lys | Ala | Gly | Ser | Ser |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Ser | Gly | Gly | Xaa | Ser | Arg | Thr | Ser | Gly | Ser | Pro | Gly | Leu | Gln |
| | | | 20 | | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Phe | Xaa | Xaa | Ser | His | Leu | Pro | Val | Ile | Arg |
| | | | 35 | | | | 40 | | | |

6324

<210> 7111
<211> 32
<212> PRT
<213> Homo sapiens

<220>
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<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7111
Lys Xaa Asn Gly Gly Leu Asp Leu Asn Xaa Val Xaa Xaa Gly Leu Gly
1 5 10 15
Xaa Ala Pro Pro Lys Lys Ser Phe Phe Phe Ser Glu Leu Xaa Gly Ser
20 25 30

<210> 7112

6325

<211> 69
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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<220>
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 <222> (43)
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<220>
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 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7112
 Gly His Ser Leu Gly Lys Gly Ala Leu Xaa Phe Gly Ser Cys Gly Lys
 1 5 10 15
 Met Ser Pro Pro Glu Arg Glu Ala Ala Leu Asn Xaa Val Xaa Thr Trp
 20 25 30

6326

Ala Val Gly Leu Thr Ser Xaa Gln His Xaa Xaa Lys Gly Xaa Gly Gly
 35 40 45

Leu Leu Pro Ala Leu Ile Lys Gly Gln Asn Phe Pro Pro Phe Gln Lys
 50 55 60

Xaa Gly Leu Pro Leu
 65

<210> 7113

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7113

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg
 1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Xaa Xaa
 20 25 30

Lys Xaa

<210> 7114

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

6327

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7114

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Phe | Phe | Ser | Phe | Leu | Gln | Leu | Leu | Asp | Asn | Ala | Leu | Pro | Tyr | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Ala | Gln | Lys | His | Ser | Lys | Phe | Trp | Gly | Ser | Phe | Leu | Ser | Gln | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Val | Glu | Gly | Trp | Gly | Ile | Pro | Val | Leu | Lys | Arg | Ile | Ser | Tyr | Ala |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ile | Val | Ile | Val | Ile | Leu | Thr | Thr | Arg | Arg | Pro | Ala | Leu | Ile | Ile |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Ser | Phe | Leu | Gln | Met | Phe | His | Leu | Gly | Pro | Xaa |
| 65 | | | | | 70 | | | | | 75 | | |

<210> 7115

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7115

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Arg | Gly | Gly | Ala | Arg | Tyr | Pro | Ile | Arg | Pro | Ile | Val | Ser | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Thr | Ile | His | Trp | Pro | Ser | Phe | Tyr | Asn | Val | Val | Thr | Asp | Xaa | Lys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

<210> 7116

<211> 46

<212> PRT

<213> Homo sapiens

6328

<400> 7116

Arg Tyr Tyr Lys Gly Arg Phe Ile Phe Lys Leu Gln Phe Leu Lys Val
1 5 10 15
Ile Ile Asp Ser Val Val His Ser Ile Val Ile Asn His Trp Val Ser
20 25 30
Ser Val Ile Phe Val Tyr Gln Met Ile Asn Phe Gln Phe Arg
35 40 45

<210> 7117

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7117

Ser Leu Ile His Val Arg Val Ser Glu Phe Ile His Leu Ser Glu Phe
1 5 10 15
Arg Asn Phe Thr Leu Lys Leu Asn Phe His Tyr Ile Gln Ala Val Val
20 25 30
Glu Phe Phe Ser Glu Ser Leu Ile Xaa Phe Leu Ile Xaa Lys Ile Pro
35 40 45
Ile Val Ser Ser Ile Asn Ala Leu Ile Lys Tyr Cys Thr
50 55 60

<210> 7118

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

6329

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7118

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Arg | Gly | Gly | Ala | Arg | Tyr | Pro | Ile | Arg | Pro | Ile | Val | Ser | Arg |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Thr | Ile | His | Trp | Pro | Ser | Phe | Tyr | Asn | Val | Val | Thr | Asp | Xaa | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

<210> 7119

<211> 20

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7119

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Val | Phe | Phe | Phe | Phe | Leu | Gly | Gly | Pro | Lys | Phe | Tyr | Xaa | Leu |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | |
|-----|-----|-----|-----|
| Phe | Xaa | Lys | Lys |
| | | | 20 |

<210> 7120

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

6330

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7120

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Cys | Ser | Phe | Leu | Ile | Ile | Xaa | Tyr | Ile | Thr | Glu | Asn | Trp | Thr |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Thr | Phe | Ser | Tyr | Leu | Ala | Phe | Pro | Phe | Asn | Pro | Lys | Ile | Ser | Val |
| | | | 20 | | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ser | Ser | Xaa | Lys | Arg | Ser | Pro | Phe | Gln | Leu | Trp | Xaa | Gln | Pro | Pro |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Xaa | Xaa | Ile | Lys | Leu | Pro | Leu | Leu | Xaa | Phe | Leu | Asn | Ile | Trp | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |

Leu

65

<210> 7121

<211> 58

<212> PRT

<213> Homo sapiens

<220>

6331

<221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (53)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7121
 Gly Ser Arg Leu Glu Xaa Asp Leu Gly Arg Arg Gln Ser Leu Thr Pro
 1 5 10 15
 Ile Gly Val Arg Xaa Glu Asp Leu Leu His Ser Ser Ser Val Asp Asn
 20 25 30
 His Asn Gly Xaa Pro Arg Lys Gly Leu Ser Cys Phe Gly Leu Leu Xaa
 35 40 45
 Val Xaa Ala Val Xaa Cys His Ser Gly Xaa
 50 55

<210> 7122
 <211> 37

6332

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7122

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Arg | Gly | Gly | Ala | Arg | Tyr | Pro | Ile | Arg | Pro | Ile | Val | Ser | Arg |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Thr | Ile | His | Trp | Pro | Ser | Phe | Tyr | Asn | Val | Val | Thr | Gly | Lys | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Asn | Xaa | Xaa | Xaa | Xaa |
| | | | | 35 |

<210> 7123

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7123

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Trp | Thr | Glu | Val | Cys | Gln | Ser | Arg | Tyr | Cys | Ile | Thr | Ile | Leu |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Val | Leu | Thr | Val | Phe | Thr | Xaa | Leu | Asn | Gly | Lys | Pro | Thr | Gly | Tyr |
| | | | | 20 | | | | 25 | | | | | 30 | | |

6333

Phe Leu Lys Leu Pro Leu

35

<210> 7124

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7124

Pro Pro Pro Phe Phe Leu Gly Lys Phe Xaa Tyr Pro Xaa Pro Pro Pro

1

5

10

15

Phe Xaa Phe Pro Xaa Lys Xaa Lys Phe Phe Xaa Asn Pro Arg Leu Pro

6334

20

25

30

Xaa

<210> 7125

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

6335

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7125

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gly | Val | Leu | Val | Thr | Ala | Lys | Arg | Leu | Arg | Ser | Val | Pro | Thr | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Xaa | Phe | Pro | Gly | Arg | Gly | Arg | Leu | Ser | Arg | Arg | Glu | Arg | Lys | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Gly | Xaa | Lys | Val | Met | Arg | Gly | Xaa | Lys | Glu | Asp | Thr | Glu | Thr |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Val | Glu | Pro | Val | Trp | Thr | Gln | Xaa | Lys | Glu | Ser | Leu | Arg | Ile |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Met | Xaa | Glu | Lys | Glu | Lys | Lys | Arg | Ile | Ser | Arg | Ile | Val | Leu | His |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Leu | Val | Lys | Ala | Pro | Gly | Asn | Xaa | His |
| | | | | 85 | | | | 90 | | |

<210> 7126

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7126

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Cys | Arg | Pro | Pro | Glu | Asn | Gln | Ala | Glu | Asp | Cys | Gly | Val | Arg | Cys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Arg | Xaa | Val | Ser | Ala | Ser | Ser | Gly | Ala | Thr | Ser | Lys | Ser | Ser | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asn | Pro | Thr | Glu | Thr | Lys | Ser | Leu | His | Arg | Gly | Lys | Glu | Arg | Asn |
| | 35 | | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Leu | Ile | Leu | Leu | Met | Glu | Thr | Phe | Ala | Glu | Lys | Asn | Leu | His |
| | 50 | | | | | 55 | | | | | 60 | | | | |

6336

<210> 7127

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7127

Ile Asn Ala Ser Xaa Leu Xaa Thr Pro Xaa Leu Ile Tyr Xaa Gly Leu

1

5

10

15

Asn Phe Cys Leu Leu Cys Ala

20

<210> 7128

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

6337

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7128

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Ala | Arg | Tyr | Pro | Ile | Arg | Pro | Ile | Val | Ser | Arg | Ile | Thr | Ile |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Trp | Pro | Ser | Phe | Tyr | Asn | Val | Val | Thr | Gly | Lys | Pro | Lys | Xaa | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Xaa

<210> 7129

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7129

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Arg | Gly | Gly | Pro | Val | Pro | Asn | Ser | Pro | Tyr | Ser | Glu | Ser | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Asn | Ser | Leu | Ala | Val | Val | Leu | Gln | Arg | Arg | Asp | Trp | Val | Lys | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

6338

Xaa Xaa Ser Phe Xaa Xaa
35

<210> 7130

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7130

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Arg | Gly | Gly | Ala | Arg | Tyr | Pro | Ile | Arg | Pro | Ile | Val | Ser | Arg |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Thr | Ile | His | Trp | Pro | Ser | Phe | Tyr | Asn | Val | Val | Thr | Gly | Xaa | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Lys

<210> 7131

<211> 16

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7131

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Arg | Pro | Thr | Ala | Ser | Ile | Xaa | Thr | Cys | Asn | Xaa | Ser | Cys | Xaa |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

6339

<210> 7132
 <211> 43
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (23)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7132
 Asn Leu Thr Lys Gly Thr Lys Leu Asn Phe His Arg Gly Gly Xaa Ala
 1 5 10 15
 Val Xaa Lys Leu Leu Asp Xaa Pro Gly Leu Gln Gly Ile Pro Glu Gln
 20 25 30
 Pro Lys Met Ala Glu Val Gln Val Leu Gly Cys
 35 40

<210> 7133
 <211> 43
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7133
 Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg
 1 5 10 15

6340

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr
 20 25 30

Gln Thr Phe Ser Phe Pro Leu Tyr Xaa Pro Thr
 35 40

<210> 7134

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7134

Asn Pro Pro Ser Gly Glu Ile Ser Leu Gly Pro Ser Asn Phe Gln Phe
 1 5 10 15

Phe Asn Gln Pro Lys Thr Pro Thr Pro Gln Asn Leu Tyr Phe Phe Tyr
 20 25 30

Phe Lys Asn Pro Phe Lys Xaa Pro Asn Xaa Gly Gly Pro Ile Pro Pro
 35 40 45

Pro Leu Phe Xaa Phe Glu Lys Pro Xaa Gly Gly Gly Pro Xaa Phe Leu
 50 55 60

6341

Lys Phe Leu Phe Trp Gly Gly Phe Phe Pro Gly Leu Ser Leu
 65 70 75

<210> 7135

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7135

Thr His Xaa Cys Leu Thr Val Ala Glu Leu Phe Glu Leu Leu Ile Gln
 1 5 10 15

Cys Xaa Leu Xaa Phe Asn Arg Ser Asn Pro Leu Pro Tyr Pro Leu Xaa
 20 25 30

6342

Ala His Val Phe Leu Thr Leu Pro Gly Cys Xaa Asn Asn Ser Pro Xaa
 35 40 45

Xaa Trp Ser Phe Pro Gln
 50

<210> 7136

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7136

Pro Pro Leu Trp Pro Val Gly Xaa Ser Pro Glu His Cys Ala Val Gly
 1 5 10 15

Pro Ser Trp Ser Xaa Leu Leu Xaa Gly Thr Val Glu Arg Pro Ser Ser
 20 25 30

Ser Lys

<210> 7137

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

6343

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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6344

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 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 7137
 Leu Xaa Gly Leu Asn Xaa Thr Pro Arg Arg Gly Gly Arg Ser Xaa Ile
 1 5 10 15
 Val Asp Pro Pro Gly Cys Xaa Asn Ser Ala Arg Ala Glu Arg Thr Ser
 20 25 30
 Leu Cys Tyr Glu Phe Xaa Ser Leu His Xaa Lys Val Lys Phe Ser Xaa
 35 40 45
 Met Ile Leu Leu Ala Val Xaa Xaa Arg Xaa Ser Val Thr Val Xaa Leu
 50 55 60
 Thr Xaa Xaa Ser Trp Xaa Thr Ser Ala Arg Ile Leu Ser Pro Xaa Ser
 65 70 75 80

 Ala Ala

<210> 7138
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>

6345

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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<220>
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<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7138
Gly Gly Gly Arg Leu Gly Gly Arg Gly Xaa Pro Ala Xaa Xaa Leu Lys
1 5 10 15
Glu Lys Thr Leu Lys Phe Gly Gly Lys Phe Ser Pro Pro Arg Gly Gly
20 25 30
Ala Trp Ala Lys Gly Gly Lys Xaa Ser Arg Gly Xaa Asn Gly Lys Gly
35 40 45
Xaa Glu Lys Ile Xaa
50

<210> 7139
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

6346

<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (21)
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<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7139
Xaa Tyr Trp Gly His Ile Gln His Ser Leu Trp Leu Ser Thr Pro Xaa
1 5 10 15
Asn Arg His Pro Xaa Ala Gln Glu Leu Met Gly Leu Xaa Leu Arg Leu
20 25 30
Tyr Ala Arg Ala Ser Arg
35

<210> 7140
<211> 46
<212> PRT
<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (7)
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<220>

6347

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7140
Leu Phe Glu Leu Xaa Pro Xaa Trp Ile Lys Thr Gly Ala Pro Pro Pro
1 5 10 15
Xaa Arg Pro Leu Xaa Asn Asn Gly Ser Pro Gly Leu Gln Glu Ile Arg
20 25 30
His Glu Leu Arg Leu Arg Val Ser Pro Leu Arg Xaa Arg Leu
35 40 45

<210> 7141
<211> 34
<212> PRT
<213> Homo sapiens

<220>
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<220>
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<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

6348

<400> 7141

Ser Leu Lys Xaa Ile Thr Xaa Ile Leu Ser Xaa Ser Ile Pro Lys Thr
 1 5 10 15

Gly Val Arg Ser Pro Lys Gly Ser Thr Pro Xaa Tyr Xaa Leu Leu Ser
 20 25 30

Thr Thr

<210> 7142

<211> 33

<212> PRT

<213> Homo sapiens

<220>

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<222> (4)

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7142

Gly Gly Gly Xaa Leu Leu Xaa Phe Arg Ala Xaa Gly Gly Xaa Lys Ala
 1 5 10 15

Gly Leu His Arg Arg Gly Ser Arg Ser Lys Thr Asn Xaa Ser Pro Gly
 20 25 30

Leu

6349

<210> 7143
<211> 40
<212> PRT
<213> Homo sapiens

<220>
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<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7143
Ala Val Ala Xaa Ala Leu Xaa Leu Xaa Asp Pro Xaa Gly Cys Ile Asn
1 5 10 15
Ser Ala Arg Ala Asn Val Gln Leu Pro Tyr Gly Ser Ser Leu Asn Pro
20 25 30
Gly Ser Ser Asp Thr Ile Xaa Leu
35 40

<210> 7144
<211> 54
<212> PRT
<213> Homo sapiens

<220>

6350

<221> SITE
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7144
Ala Thr Thr Trp Xaa Ser Phe Gln Arg His Ser Trp Gly Leu Ser Ile
1 5 10 15
Gly Leu His Ser Thr Xaa Ile Leu Gln Tyr Arg Thr Phe Asn Gly Ala
20 25 30
Val Xaa Val Leu Lys Leu Tyr Phe Ile Ser Lys Ile Xaa Met Val Met
35 40 45
His Ile Ser Glu Leu Ser
50

<210> 7145
<211> 76
<212> PRT
<213> Homo sapiens

<220>
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<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

6351

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7145

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Gly | Asp | Ile | Lys | Val | Pro | Gly | Asn | Leu | Leu | Val | Arg | Glu | Gly |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Arg | Gly | Glu | Ser | Cys | Thr | Glu | Ser | Lys | Leu | Gln | Arg | Phe | Ala | Glu |
| | | | 20 | | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ser | Ser | Trp | Ser | Xaa | Gln | His | Ser | Met | Gln | Leu | Met | Phe | Ile | Gly |
| | | 35 | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Tyr | Leu | Arg | Phe | Arg | Gly | Asn | Tyr | Thr | Xaa | Lys | Asp | Arg | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ala | Leu | His | Xaa | His | Arg | Thr | Glu | Arg | Lys |
| 65 | | | | | 70 | | | | 75 | | |

<210> 7146

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

6352

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7146
 Cys Pro Ser Phe Asn Gly Lys Asn Trp Thr Xaa Arg Xaa Gly Gly Arg
 1 5 10 15
 Ser Arg Ile Val Asp Pro Pro Gly Cys Arg Glu Phe Gly Thr Ser Leu
 20 25 30
 Ser Ser Leu Ser Leu Leu Xaa Gly His Arg Leu Xaa Thr Leu Xaa Trp
 35 40 45
 Gln Ser Leu Thr His Xaa Arg Asp Ala Gln Gly Xaa
 50 55 60

<210> 7147
 <211> 101
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

6353

<221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (80)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (88)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (97)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7147
 Leu Arg Ile Arg Phe Cys Pro Val Ala Ser Arg Glu Ser Pro Gly His
 1 5 10 15
 Leu Asp Tyr Leu Ile Thr Ile Thr Pro Pro Ile Val Thr Gln Leu His
 20 25 30
 Thr Xaa Met Phe Leu Lys Ile Leu Asn Arg Xaa Ser Asn Pro Leu Gly
 35 40 45
 Asn Arg Leu Ser Thr Lys Xaa Ser Pro Pro Ile Trp Leu Leu Asn Leu
 50 55 60
 Ala Pro Ser Ser His Phe Thr Tyr Xaa Val Pro Val Pro Xaa Lys Xaa
 65 70 75 80
 Arg Met Glu Xaa Pro Ala Leu Xaa Pro Gly Pro Arg Pro Phe Tyr Ile
 85 90 95
 Xaa Ala Lys Lys Lys
 100

<210> 7148
 <211> 54
 <212> PRT

6354

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7148

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | His | Pro | Gln | Val | Glu | Lys | Met | Leu | Pro | Glu | His | Ala | Ala | Ala | Pro |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Ser | Cys | Leu | Ala | Lys | Thr | Asp | Pro | Gly | Asp | Ser | His | Glu | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Val | Pro | Gly | Cys | Leu | His | Ser | Pro | Cys | Tyr | Val | Leu | Gly | Thr | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Thr | Val | Asp | Xaa | Pro | Phe |
| | | 50 | | | |

<210> 7149

<211> 22

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

6355

<400> 7149

Xaa Xaa Val Ala Leu Leu Asn Val Tyr Asp Leu Phe Tyr Xaa Leu Arg
1 5 10 15

Ser Xaa Met Val Xaa Glu
20

<210> 7150

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7150

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg
1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Thr Pro
20 25 30

Lys Xaa

<210> 7151

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

6356

<400> 7151

Ser Ala Arg Val His Ser Glu Tyr Cys Gly Ser Pro Gly Lys Phe Val
1 5 10 15
His Arg Gly Tyr Cys His Phe Gly Lys Thr Leu Gly Cys Leu Val Arg
20 25 30
Arg Leu Gln Xaa Ala Glu Gly Gln Thr Thr Lys Gly Cys Phe Arg Val
35 40 45
Gln Leu Arg Arg Glu Xaa Gly His Gln Lys Lys Glu Pro Asp Trp Trp
50 55 60
Leu Tyr Leu His Pro Xaa Phe Lys Gln Trp Arg Ser
65 70 75

<210> 7152

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6357

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7152

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Thr | Thr | Leu | Phe | Arg | Xaa | Asn | Ala | Pro | Gly | Leu | Thr | Xaa | His | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Leu | Xaa | Pro | Phe | Thr | Xaa | Cys | Xaa | Xaa | Thr | Gln | Xaa | Ser | Lys |
| | | 20 | | | | | 25 | | | | | | 30 | | |

Thr Val

<210> 7153

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7153

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Thr | Ile | Ala | His | Phe | Phe | Leu | Lys | Gln | Pro | Val | Lys | Gln | Xaa | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ser | Asn | Ala | Arg | Leu | Ile | Tyr | Leu | Ser | Phe | Trp | Arg | Trp | Val | Leu |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ser | Ser | Ser | Ser | Pro | Phe | His | Val | Pro | Pro | Asp | Leu | Leu | Val | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

Phe Phe Arg Tyr Ser Ile Xaa His Thr Phe Met Leu

6358

50

55

60

<210> 7154

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7154

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ile | Leu | Cys | Gln | Thr | Trp | Ser | Lys | Ser | Leu | Ser | Ser | Gly | Ser | Asn |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Ala | Met | Leu | Xaa | Leu | Ser | His | Ser | Xaa | Leu | Ala | Arg | Xaa | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Lys | Lys | Val | Cys | Leu | Ser | Leu | Leu | Lys | Asp | Ser | Ala |
| | | 35 | | | | | 40 | | | | | 45 | |

<210> 7155

<211> 25

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

6359

<400> 7155

Xaa Leu Lys Asp Lys Thr Asp Pro Arg Xaa Gly Arg Ser Asn Tyr Gly
1 5 10 15

Pro Arg Leu Gln Asn Ser Ala Arg Gly
20 25

<210> 7156

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7156

Ala Ala Arg Xaa Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg
1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Ile Pro
20 25 30

Lys Xaa

<210> 7157

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

6360

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6361

<221> SITE
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<220>
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 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (76)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7157
 Gly Ala Pro Ala Pro Ser Pro Gly Met Arg Ile Leu Gly Tyr Xaa Ile
 1 5 10 15
 Leu Xaa Xaa Ser Xaa Ala Thr Xaa Xaa Xaa Gly Ser Gly Glu Gly Xaa
 20 25 30
 Thr Trp Asp Leu Xaa Cys Leu Met Xaa Lys Xaa Xaa Asp His Cys Xaa
 35 40 45
 Thr Ser Val Leu Leu Lys Met Ser Gly Ile Arg Xaa Arg Asp Cys Asn
 50 55 60
 Cys Arg Phe Val Thr Asp Thr Xaa Leu Ser Ile Xaa Ser Ile Ser
 65 70 75

<210> 7158
 <211> 23
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

6362

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7158
Trp Gly His Arg Ala Xaa Xaa Asn Gln Xaa Pro Lys Xaa Ile Xaa Xaa
1 5 10 15
Thr His Pro Val Pro Xaa Leu
20

<210> 7159
<211> 65
<212> PRT
<213> Homo sapiens

<220>
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<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>

6363

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 <223> Xaa equals any of the naturally occurring L-amino acids

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 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7159
 Ala Tyr Lys Lys Glu Lys Glu Gln Ser Gln Glu Arg Thr Xaa Xaa Lys
 1 5 10 15
 Cys Phe Gly Thr Ser Leu Phe Leu Asp Phe Glu Leu Ser Asn Trp Phe
 20 25 30
 Ser Gln Val Lys Leu Lys Asn Ser Glu Thr Trp Phe Tyr Glu Ser Cys
 35 40 45
 Ser Tyr Thr Phe Leu Xaa Xaa Gly Pro Xaa Leu Leu Pro Arg Leu Leu
 50 55 60
 Thr
 65

<210> 7160
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7160
 Leu Val Ser Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser
 1 5 10 15

6364

Tyr Tyr Asn Ser Leu Ala Val Val Leu Asn Val Val Thr Gly Thr Xaa
 20 25 30

Xaa

<210> 7161

<211> 39

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

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<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7161

Tyr Xaa Ser Ile Thr Xaa Lys Gly Gln Thr Asp Ser Arg Gly Gly Ala
 1 5 10 15

Leu Glu Tyr Gly Pro Arg Leu Gln Ile Arg Arg Ala Gly Val Glu Xaa
 20 25 30

Xaa Leu Xaa Pro Glu Cys His
 35

<210> 7162

6365

<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7162
Arg His Glu Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser Tyr
1 5 10 15
Tyr Asn Ser Leu Ala Val Val Leu Asn Val Val Thr Gly Pro Xaa Xaa
20 25 30

Xaa

<210> 7163
<211> 84
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

6366

<220>
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 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (34)
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<220>
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<220>
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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7163
 Xaa Pro Ile Xaa Lys Xaa Xaa Arg Leu Cys Xaa Gln Asp Asn Arg Leu
 1 5 10 15

Gly Asn Ser Ser Thr Arg Val Ala Lys Thr Gln Thr His Leu Leu Gly
 20 25 30

6367

Leu Xaa His Xaa Ile Ala Ile Asn Xaa Phe Pro Cys Gly Leu Leu Xaa
 35 40 45
 Glu Glu Phe Ala Leu Leu Xaa Pro Ser Gly Val Pro His Ala Arg Xaa
 50 55 60
 Ser Cys Pro Cys Arg Pro Ile Leu Ile Tyr Arg Ala Thr Arg Lys Thr
 65 70 75 80
 Ile Cys Xaa Ser

<210> 7164

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7164

Ala Ala Arg Ala Leu Pro Arg Arg Thr Xaa Glu Ile Thr Val Thr Xaa
 1 5 10 15
 Ser Ser Ala Leu Val Arg Asn Arg Glu Gln Leu Arg Leu Ser Pro Lys
 20 25 30
 Asn Leu Leu Glu Gly Leu Glu Lys Phe Leu Pro Leu Ile Pro Ala Xaa
 35 40 45

<210> 7165

6368

<211> 93
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (87)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7165
 Lys Asn Gln Ala Ala Gly Arg Glu Ser Leu Gln Ser Arg Xaa Glu Val
 1 5 10 15
 Glu Tyr Thr Arg Asp Gln Thr His Asp His Ser Ser Leu Gln Thr Phe
 20 25 30
 Leu Gly Xaa Gln Gln Pro Met Pro Ser Leu Gly Met Leu Pro Leu Cys
 35 40 45
 Cys Glu Glu Leu Ile Leu Val Phe His His Ser Gly Ser Asn Met Leu
 50 55 60

6369

Xaa Pro Thr Ser Leu Asp Xaa Pro Gly Leu Thr Ile Ile Leu Xaa Phe
 65 70 75 80

Leu Phe Val Leu Ser Thr Xaa Ser Asn Asn Xaa Thr Ser
 85 90

<210> 7166

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7166

Glu Asn Arg Tyr Ser Ser Leu Ser Xaa Asn Asn Leu Ile Pro Pro Val
 1 5 10 15

Gln Leu Lys Tyr Leu Leu Gly Lys Tyr Tyr Cys Glu Arg Arg Asn Xaa
 20 25 30

6370

Tyr Xaa Tyr Ile Leu Thr Ile Arg His Leu Xaa Arg Lys His Thr Thr
35 40 45

Leu Xaa Tyr Leu Thr Asn Trp Lys Thr His Thr Ser Gly Ala Lys Leu
50 55 60

Gln Leu Arg His Leu Phe Leu Ala Val Arg Ser Ile Xaa
65 70 75

<210> 7167

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

6371

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7167

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Cys | Arg | Xaa | Gly | Thr | Ser | Xaa | Ile | Val | His | Xaa | Met | Leu | Val | Xaa |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Glu | Asp | Asn | Xaa | Asp | Phe | Arg | Lys | Xaa | Leu | Xaa | Gly | Cys | Cys | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Asn | Xaa | Xaa | Ser | Thr | Glu | Arg | His | Lys | Pro | Gln | Thr | Ser | Ser | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | |
|-----|-----|-----|
| Pro | Arg | Thr |
| | | 50 |

<210> 7168

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6372

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7168

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Tyr | His | Ser | Pro | Ser | Ile | Leu | Thr | Lys | Gly | Xaa | Lys | Met | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Cys | Met | Xaa | Cys | Asp | Ala | Thr | Thr | Leu | Xaa | Xaa | Arg | Xaa | Tyr | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | |
|-----|-----|-----|
| Lys | Glu | Lys |
| | | 35 |

<210> 7169

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7169

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Tyr | Leu | Leu | His | Asn | Glu | Leu | Thr | Arg | Ile | Thr | Cys | Lys | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Lys | Leu | Arg | Pro | Arg | Asn | Xaa | Glu | Leu | Leu | Arg | Thr | Leu | Lys | Asp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Pro | Ser | Met | Cys | Lys | Tyr | Gly | Lys | Ile | Ile | Val | Ser | Thr | Thr | Thr |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Cys | Asp | Thr | Gly | Val | Lys | Ile | Ile | Tyr | Ser | Leu |
| | 50 | | | | | 55 | | | | | 60 |

<210> 7170

<211> 48

<212> PRT

<213> Homo sapiens

<400> 7170

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Lys | Asp | Lys | Arg | Thr | Pro | Ala | Gly | Ala | Ala | Leu | Thr | Met | Asp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Leu | Gln | Asn | Ser | Ala | Arg | Ala | Gln | Thr | Gly | Lys | Thr | Arg | His |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

6373

20

25

30

Asn Asp Lys His Thr Gly Cys Cys Gly Asp Asn Asp Gln Leu Ser Val
35 40 45

<210> 7171

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6374

<221> SITE
 <222> (77)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (81)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (87)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 7171
 Gly Ile Xaa Val Pro Ser Leu Pro Val Ser Gly Leu Tyr Ala Xaa Arg
 1 5 10 15

 Gly Leu Xaa Ser Ala Asp Xaa Ile Ser Asp Tyr Val Tyr Thr Ser Ser
 20 25 30

 Thr Asn Cys Val Gln Leu Leu Gly Phe Trp Xaa Xaa Thr Pro Leu Pro
 35 40 45

 Gly His Ala Asp Asp Pro Gly Met Pro Lys Asn Ala Leu Arg Ser Pro
 50 55 60

 Asp Tyr Val Ser Trp Xaa Cys Tyr Met Pro Asn Leu Xaa Ser Ala Thr
 65 70 75 80

 Xaa His Met Ile Cys Thr Xaa Arg Asn Asp Thr Xaa
 85 90

<210> 7172
 <211> 43
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>

6375

<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7172
Arg Xaa Xaa Leu Asp Ser Pro Arg Gly Ala Ala Leu Xaa Tyr Gly Ser
1 5 10 15
Pro Gly Cys Met Asn Ser His Glu His Ala Arg Gly Pro Asn Asn Ser
20 25 30
Glu Ala Gly Gly Ile Pro Thr Leu Xaa Leu Asp
35 40

<210> 7173
<211> 72
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7173
Lys Val Cys Ile Glu Tyr Thr Ser Gly Phe Phe Ala Leu Leu Phe Ala
1 5 10 15
His Cys Ser His Val Phe Phe Ile Ala Val Ser Lys Asn Ile Leu Asp

6376

20 25 30
Xaa Tyr Gly Met Leu Phe Phe Ser His Gln Leu Lys Leu Leu Lys Asn
35 40 45
Ile Xaa Tyr Ile Cys Gly Lys Asp Ser Glu Arg Ser Ile Gly Val Leu
50 55 60
Leu Xaa Val Pro Asn Cys Leu Leu
65 70

<210> 7174

<211> 64

<212> PRT

<213> Homo sapiens

<400> 7174

Glu Lys Asn Ile Ser Glu Trp Gly Ile Leu Arg Lys Met Ile Asn Thr
1 5 10 15
Ala Gln Glu Tyr Lys Lys Glu Ser Lys Ser Tyr Asn Met Ser Leu Leu
20 25 30
His Ile Tyr His Ser Ser Leu Phe Cys Phe Val Leu Asp Asp Ala Lys
35 40 45
Leu Arg Gly Leu Ala Ala Pro Ser Asn Leu Ser Met Glu Ser Asp Ser
50 55 60

<210> 7175

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

6377

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (80)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7175
 Asn Pro Glu Ser Glu Arg Gly Arg Asp Asp Gly Leu Gln Ala Ser Gly
 1 5 10 15
 Pro Ser Arg Gly Pro Arg Ser Met Trp Leu Leu Pro Ser Leu Ser Val
 20 25 30
 Leu Cys Val Ala Ser Ser Ser Leu Thr Gly Tyr Pro Ala Xaa Pro Ser
 35 40 45
 Ser Phe Ser Ser Pro Thr Phe Pro Lys Gly Val Leu His Phe Tyr Phe
 50 55 60
 Gly Xaa Asn Phe Ser Trp Gly Glu Asn Xaa Gly Trp Gly Leu Pro Xaa
 65 70 75 80
 Lys Pro Xaa Gly Thr Phe Pro Ala Ile
 85

<210> 7176
 <211> 64
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

6378

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7176

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Ser | Gly | Ser | Trp | Asp | Lys | Leu | Gly | Phe | Thr | Leu | Ile | His | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ile | Ser | Ser | Ser | Val | Phe | Pro | Phe | Pro | Thr | Leu | Arg | Phe | Leu | Cys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Arg | Trp | Ala | Gln | Xaa | Arg | Thr | His | Pro | Thr | Xaa | Pro | Gly | Xaa | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Lys | Pro | Gly | Gly | Gly | Ala | Gly | Lys | Asn | Arg | Pro | Asn | Asp | Cys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

<210> 7177

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7177

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Phe | Glu | Gly | Ser | Leu | Arg | Lys | Pro | Leu | Asn | Trp | Lys | Ser | Leu | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Ser | Xaa | Ile | Ser | Val | Asn | Val | Ser | Lys | Glu | Leu | Met | Leu | Cys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Leu | Ile | Lys | Pro | Ser | Thr | Met | Thr | Asp | Lys | Glu | Met | Glu | Ser | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Glu | Met | Phe | Glu | Lys | Asp |
| | 50 | | | | |

<210> 7178

<211> 41

<212> PRT

6379

<213> Homo sapiens

<400> 7178

Arg Met Pro Asn Lys Ala Arg Lys Ser Ile Val Thr Cys Ala Leu Arg
1 5 10 15
Ala Gln Tyr Leu Tyr Leu Ile Ser Thr Glu Glu Ile Phe Leu Cys Asn
20 25 30
Leu Ile Phe Cys Leu Val Leu Val Leu
35 40

<210> 7179

<211> 46

<212> PRT

<213> Homo sapiens

<220>

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<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7179

Leu Phe Phe Asn Thr Cys Val Pro Val Asn Ile Met Ser Asn His Lys
1 5 10 15
Cys Leu Ile Gly Trp Ser Xaa Xaa Val Gly Glu Glu Arg Tyr Arg Ser
20 25 30
Cys Leu Ile Ser Ile Ser Cys Ser Ala Leu Lys Ile Phe Ile
35 40 45

<210> 7180

<211> 112

<212> PRT

<213> Homo sapiens

<220>

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<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

6380

<220>
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<220>

6381

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<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7180
Asp Cys Phe Val Ser Ile Pro Ile Leu Tyr Ser Cys Ser Trp Xaa Asn
1 5 10 15
Xaa Asn Gln Ala Leu Ser Ile Leu Pro Lys Thr Xaa Val Cys Asp Ser
20 25 30
Ser Phe Gln Trp Leu Phe Ser Ile Pro Ser Xaa Arg Xaa Pro His Leu
35 40 45
Ser Ser Xaa Leu Pro Ser Ser Trp Thr Val Arg Cys Leu Phe Tyr Ser
50 55 60
Pro Phe Ser Ile Arg Val Trp Asp Gly Pro Lys Xaa Ser Ser Ser Leu
65 70 75 80
Asn Asn Ile Val Leu Asp Thr Xaa Ile Glu His Xaa Xaa Leu Leu Val
85 90 95
Ala Xaa Leu His Cys Ile Leu Val Tyr Gln Ile Xaa Pro Xaa Xaa Xaa
100 105 110

<210> 7181
<211> 63
<212> PRT
<213> Homo sapiens

6382

<220>
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<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7181
Leu Asp Phe Cys Met Glu Asn Ile Gln Gly Tyr Ile Ser Leu Phe Leu
1 5 10 15
Tyr Ser Arg Glu Gly His Leu Val Leu Cys Lys Tyr Val Ala Asp Leu
20 25 30
Ser Phe Ser Asp Xaa Arg Ala Pro Xaa Leu Lys Val Phe Leu Asn Ala
35 40 45
Trp Lys Glu Asn Val Ile Phe Xaa Glu Ser Asn Ile Phe Ile Ser
50 55 60

<210> 7182
<211> 18
<212> PRT
<213> Homo sapiens

<220>
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<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7182

6383

Leu Xaa Phe Ala Leu Ser Xaa Cys His Gly His Asp Ser Arg Ser Xaa
 1 5 10 15

Ser Lys

<210> 7183

<211> 38

<212> PRT

<213> Homo sapiens

<400> 7183

Asp Ile Asp Phe Trp His Asp Arg Val Arg Arg Leu Met Lys Pro Leu
 1 5 10 15

Pro Lys Lys Thr Ala Arg Lys Leu Glu Glu Asn Cys Gln Lys His Pro
 20 25 30

Phe Gln Leu Pro Lys Asn
 35

<210> 7184

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7184

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg
 1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Pro
 20 25 30

Lys Xaa Xaa
 35

6384

<210> 7185

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7185

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Cys | Gly | Leu | Cys | Val | Thr | Leu | Ser | His | Ile | Ile | Gln | Arg | Ile | Met |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Thr | Phe | Ile | Ala | Lys | Xaa | Ile | Cys | Leu | Met | Pro | Asn | Thr | Pro | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Xaa | Ala | Pro | Arg | Pro | Gly | Val | Ser | Phe | Arg | Lys | Gly | Lys | Gly | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | |
|-----|-----|-----|
| Gly | Leu | Tyr |
| | 50 | |

<210> 7186

<211> 33

<212> PRT

<213> Homo sapiens

<220>

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<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

6385

<220>
<221> SITE
<222> (28).
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7186
Lys Glu Lys Gly Lys Cys His Lys Lys Leu Glu Tyr Leu Trp Ser Leu
1 5 10 15
Lys Pro Trp Asn Leu Leu Xaa Gly Xaa Val Tyr Xaa Arg Asn Pro Gly
20 25 30

Xaa

<210> 7187
<211> 20
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7187
Phe Ile Tyr Xaa Cys Cys Ala Leu Thr Val Pro Xaa Ile Ile Leu Xaa
1 5 10 15

6386

Tyr His Xaa Val
20

<210> 7188

<211> 16

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7188

Glu Leu Val Ser Ser Phe Phe Phe Phe Phe Xaa Xaa Xaa Thr Trp Ile

1

5

10

15

<210> 7189

<211> 60

<212> PRT

<213> Homo sapiens

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6387

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7189

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ser | Tyr | Xaa | Phe | Ser | Arg | Xaa | Asn | Val | Leu | Pro | Leu | Thr | Phe | Ile |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Val | Tyr | Ile | Phe | Xaa | Gln | His | Ser | Lys | Leu | Leu | Glu | Ser | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Phe | Thr | Tyr | Phe | Tyr | Leu | Leu | Phe | Ser | Leu | Cys | Thr | Ala | Leu | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Ile | Val | Phe | Gln | His | Met | Arg | Leu | Thr | Ala | His |
| 50 | | | | | | 55 | | | | | 60 |

<210> 7190

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7190

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Asn | Thr | Ile | Pro | Xaa | Thr | Arg | Leu | Arg | Gly | Xaa | Thr | Cys | Gln | Ile |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Leu | Ser | Leu | Ala | Met | Tyr | Pro |
| | | | 20 | | | | |

<210> 7191

<211> 36

<212> PRT

<213> Homo sapiens

6388

<220>
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 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (18)
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<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7191
 Gly Glu Leu Leu Leu Gln Glu Thr Ala Asp Phe Gly Xaa Lys Leu Leu
 1 5 10 15
 Leu Xaa Xaa Ser Pro Gly Gly Thr Val Pro Thr Val Ser Trp Arg Asn
 20 25 30
 Asn Xaa Leu Xaa
 35

<210> 7192
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (11)

6389

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7192

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ala | Leu | Ser | Lys | Leu | Thr | Xaa | Thr | Lys | Xaa | Asn | Lys | Ser | Trp | Xaa |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Gly | Gly | Gly | Gly | Gly | Xaa | Lys | Xaa | Xaa | Gly | Ser | Pro | Gly | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Lys

<210> 7193

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7193

Leu Val Pro Asn Ser Ala Arg Val Ser Pro Gly Ile Gln Ala Phe Arg

6390

| 1 | 5 | 10 | 15 |
|---|----|----|----|
| Ala Thr Gly Pro Leu Asn Tyr Trp Pro Glu Leu Pro Thr Leu Pro Val | 20 | 25 | 30 |
| Gln Arg Leu Trp Cys Tyr Gly Gly Pro Leu His Ser Lys Ser Ser Xaa | 35 | 40 | 45 |
| Ile Ser Lys His Leu Leu His | 50 | 55 | |

<210> 7194

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

6391

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7194

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asn | Leu | Thr | Leu | Xaa | Phe | Met | Leu | Ala | Ser | Xaa | Leu | Xaa | Asp | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Glu | Lys | Xaa | Lys | Leu | Ser | Pro | Glu | Phe | Xaa | Asn | Tyr | Gly | Glu | Lys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ile | Leu | Ile | Val | Thr | His | Xaa | Ala | Thr | Leu | Ser | Leu | Phe | Cys | Phe |
| | | 35 | | | | | 40 | | | | | 45 | | | |

6392

Val Phe Pro Ser Asn Xaa Xaa Lys Cys Xaa Glu Pro Arg Leu Leu Xaa
 50 55 60

Xaa Xaa Ala Xaa Xaa Phe His Leu Pro Trp Leu Leu Ile Pro Pro Lys
 65 70 75 80

Leu Gln Asn Pro Ile Leu Gly Xaa Asn Leu Ser Ala
 85 90

<210> 7195

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7195

Leu Tyr Xaa Leu Leu Ser Pro Asn Gln Val Tyr Met Trp Phe Asp Lys
 1 5 10 15

Tyr Tyr Ser Ile Leu Met Gly Ile Leu Met Gln Arg Ile Xaa Xaa Gly
 20 25 30

Ile Val Leu Glu Ile Tyr Lys Ile Lys Thr Val Cys Leu Ile
 35 40 45

<210> 7196

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

6393

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7196

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg

1

5

10

15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr

20

25

30

Gln Ile Xaa Val Xaa

35

<210> 7197

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

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<220>

<221> SITE

<222> (16)

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<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (23)

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<220>

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<220>

6394

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<220>
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<222> (37)
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<220>
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<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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6395

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7197

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Xaa | Glu | Ile | Phe | Glu | Lys | Ile | Met | Leu | Lys | Phe | Ser | Gln | Phe | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Lys | Asn | Leu | Ile | Phe | Xaa | Pro | Lys | Xaa | Leu | Asn | Glu | Leu | Asp | Lys |
| | | 20 | | | | | | 25 | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Lys | Ile | Xaa | Pro | Lys | Thr | Xaa | Ser | Xaa | Phe | Phe | Leu | Xaa | Ser |
| | | 35 | | | | | 40 | | | | 45 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Lys | Xaa | Lys | Ile | Phe | Leu | Glu | Tyr | Xaa | Gly | Glu | Lys | Thr | Pro | Pro |
| | | 50 | | | | 55 | | | | | 60 | | | | |

6396

Phe Leu Trp Xaa Pro Xaa Lys Xaa Xaa Val Xaa Phe Leu Thr Thr Gly
 65 70 75 80

Gly Gly Xaa Val Phe Xaa Thr Xaa Pro Xaa Lys Lys Lys Asn Xaa Pro
 85 90 95

Pro Phe Phe

<210> 7198

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7198

Phe Ser Ser Leu Lys Leu Ser Leu Glu Tyr Leu Ser Leu Leu Leu Val
 1 5 10 15

Leu Trp Leu Leu Met Ile Leu Ala Phe Ser His Phe Asp Phe Val Leu
 20 25 30

Lys Lys Asn Phe Glu Pro Asn Asn Ile Pro Val Tyr Phe Xaa Pro Ile
 35 40 45

6397

Thr Phe His Glu Ser Arg Ala His Ser Xaa Xaa Pro Xaa Ile Pro Lys
 50 55 60

Thr Xaa Val Pro Thr Ile Met Gly Gly Gly Val Ser
 65 70 75

<210> 7199

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7199

Cys Lys Asp Asn Gly Lys Pro Leu Ala Gly Phe Met Glu Asp Gly Val
 1 5 10 15

Leu Asn Arg Cys Phe Trp Lys Cys Lys Val Asp Asn Gly Leu Lys Leu
 20 25 30

Xaa Thr Thr Leu Xaa Ala Trp
 35

<210> 7200

<211> 38

<212> PRT

<213> Homo sapiens

<400> 7200

Ala Arg Arg Lys Gly Cys Thr Glu Phe Glu Asp Thr Ala Ala Val Ser
 1 5 10 15

Trp Arg Glu Glu Ala Lys Gly Ala Arg Arg Leu Gln Ala Lys Gly Gly
 20 25 30

Gly Ala Trp Asp Leu Asn
 35

6398

<210> 7201

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7201

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Pro | Xaa | Val | Xaa | Asp | Lys | Leu | Phe | Pro | Lys | Asn | Gln | Asn | Met | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Ser | Trp | Thr | Phe | Lys | Pro | Val | Leu | Xaa | Val | Ile | Pro | Asn | Tyr | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ser | Val | Arg | Glu | Gln | Xaa | Ile | Leu | Pro | Lys | Asn | Glu | Xaa | Pro | Cys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | |
|-----|-----|-----|-----|
| Arg | Lys | Pro | Glu |
| | | | 50 |

6399

<210> 7202
<211> 66
<212> PRT
<213> Homo sapiens

<220>
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<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6400

<221> SITE
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7202
 Glu Xaa Leu Xaa Tyr Glu Lys Gly Thr Arg Xaa Met Cys Ala Cys Val
 1 5 10 15
 Asn Pro Thr Xaa Thr Ser Xaa Xaa Xaa Xaa Xaa Trp Xaa Phe Xaa Ile
 20 25 30
 Phe Leu Pro Pro Ile Ser Tyr Pro Lys Gln Asn Lys Xaa Pro Phe Ser
 35 40 45
 Ile Ile Ser Xaa Asn Ile Gln Tyr Cys Pro Cys Gly Ile Phe Leu Asn
 50 55 60
 Ser Leu
 65

<210> 7203
 <211> 122
 <212> PRT
 <213> Homo sapiens

<220>
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6401

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<222> (22)
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<222> (23)
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<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

6402

<220>
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<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (71)
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<222> (73)
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<222> (76)
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<222> (82)
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<222> (89)
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<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7203

6403

Ser Cys Arg Ser Cys Arg Xaa Arg His Lys Arg His Glu Glu Gln Val
 1 5 10 15
 Xaa Asn Leu Ser Xaa Xaa Xaa Asn Thr Xaa Pro Val Cys Xaa Ser Thr
 20 25 30
 Cys Lys Leu Xaa Arg Cys Leu Leu Xaa Tyr Arg Phe Ile Ser Gln Thr
 35 40 45
 Thr Val His Xaa Cys Leu Pro Arg Glu Leu Gln Asp Xaa Ile Thr Phe
 50 55 60
 Asp Xaa Ser Xaa Xaa Ile Xaa Cys Xaa Lys Val Xaa Asn Phe Asn Phe
 65 70 75 80
 Leu Xaa Asn Ile Gln Leu Phe Asn Xaa Ser Xaa Ile Thr Ser Tyr Phe
 85 90 95
 Asn Leu Asn Leu Asn Tyr Arg Lys Val Ser Xaa Leu Ser Phe Glu Xaa
 100 105 110
 Leu Leu Pro Arg Phe Asn Phe Ser Ser Leu
 115 120

<210> 7204

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7204

Leu Leu Lys Arg Thr Lys Ser Trp Gly Pro Pro Ala Val Lys Xaa Arg
 1 5 10 15
 Phe Leu Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Gly Thr Pro
 20 25 30
 Leu Pro Glu Lys Thr Val Xaa Val
 35 40

6404

<210> 7205
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
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<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7205
Gln Thr Met Phe Thr Thr Cys Arg Pro Ser Ile Arg Ile Phe Leu Gly
1 5 10 15

6405

Ser Leu Met Ile Tyr Leu His Ala Ile Cys Pro Gln Gln Ile Val Ser
 20 25 30

Gln Glu Trp Asn Xaa Gln Gly His Trp Xaa Cys Xaa Lys Val Xaa Lys
 35 40 45

Arg Ala Xaa His Pro Leu Lys Phe Arg Phe Val Asn Ile Xaa Leu Thr
 50 55 60

Asn Ser Asn Xaa Ala Met Xaa Phe Pro
 65 70

<210> 7206

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7206

Leu Leu Lys Gly Lys Xaa Trp Ala Pro Arg Gly Xaa Gly Arg Phe Leu
 1 5 10 15

Thr Ser Gly Ser Pro Gly Xaa Gln Gly Ile Arg Gly Xaa Pro Pro Cys
 20 25 30

6406

<210> 7207
 <211> 74
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7207
 Tyr Pro Asp Ile Pro Ala Leu Xaa Gln Arg Xaa Gly Leu Lys Lys Lys
 1 5 10 15

Ser Thr Cys Ser Phe Arg Pro Gln Ala Gln Gln Xaa Gly Glu Ile Asn
 20 25 30

6407

Cys Phe Trp Lys His Leu Gly Gly Val Trp Gly Trp Ala Xaa Lys Lys
 35 40 45

Gln Val Xaa Phe Asn Xaa Leu Leu Trp Lys Phe Cys Phe Ile Ile Ile
 50 55 60

Pro Phe Pro Leu Cys Tyr Thr Xaa Pro Xaa
 65 70

<210> 7208

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7208

Lys Arg Asn Trp Cys Val Asn Gln His Lys Ile Leu Glu Cys Ile Ser
 1 5 10 15

Ile Ser Ile Phe Ser Pro Thr Asn Pro Val Thr Val Val Asn Asn Gln
 20 25 30

Cys Val Asn Asn Glu Tyr Leu Phe Phe Thr Leu Phe Gln Gly Lys Thr
 35 40 45

Asn Ile Tyr Gly Thr Leu Pro Phe Glu Xaa Thr Leu Glu
 50 55 60

<210> 7209

<211> 17

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

6408

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7209

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Arg | Thr | Xaa | Pro | Glu | Ser | Val | Ser | Cys | Xaa | Pro | Glu | Ile | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

Xaa

<210> 7210

<211> 56

<212> PRT

<213> Homo sapiens

<400> 7210

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Arg | Ala | Glu | Phe | Gly | Thr | Ser | Pro | Asn | Glu | Leu | Leu | Asp | Pro | Asp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Val | His | Arg | Trp | Leu | Lys | Gln | Ser | Asp | Leu | His | Leu | Gly | Asp | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ile | Gln | Val | His | Arg | Asp | Pro | Ala | Ala | Leu | Asp | Gly | Ser | Gly | Cys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Thr | Leu | Thr | Val | Val | Met | Arg |
| | 50 | | | | | 55 | |

<210> 7211

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6409

<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7211
Leu Lys Val Trp Lys Ala Glu Phe Met Lys Lys Asn Xaa Lys Lys Ala
1 5 10 15
Xaa Ser Asn His Asp Leu Pro Ile Lys Xaa Xaa Trp Phe Gly Gly Lys
20 25 30
Gly Xaa Val Gly
35

<210> 7212
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

6410

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7212

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Leu | Lys | Gly | Gln | Lys | Leu | Xaa | Pro | His | Arg | Gly | Lys | Arg | Pro |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Xaa | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Lys | Phe | Gly | Asp | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Xaa

<210> 7213

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7213

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Cys | Pro | Gln | Asn | Pro | Leu | Asn | Pro | Leu | Val | Asn | Leu | Thr | Val | Ser |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

6411

Pro Lys Xaa Asn Ser Ser Leu Asp Thr Arg Lys Lys Pro Cys Arg Xaa
 20 25 30

Ser Lys Lys Phe Asn Thr His Gly Arg Pro Lys Ser Ser His Xaa Leu
 35 40 45

Arg Lys Arg Ser Ser Ser Thr Pro Thr Thr Xaa Xaa Ile Pro Asn Ile
 50 55 60

Leu Leu Asn Ser Ser His Pro Ile Gly Thr Asn Leu Ser Pro Tyr Arg
 65 70 75 80

Lys Asn Leu Cys Leu Leu
 85

<210> 7214

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7214

Gly Ala Leu Ile Xaa Arg Leu Ser Ala Ser Leu Gln Trp Gly Xaa Ser
 1 5 10 15

Pro Ile Pro Asn Phe Phe Phe Xaa Xaa Gly Ala Gln Pro Asn Ser Pro
 20 25 30

Leu

6412

<210> 7215

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7215

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Gln | His | Leu | Asn | Thr | Thr | Thr | Phe | Gln | Lys | Ser | Ser | Lys | Phe | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Cys | Lys | Ala | Cys | Gly | Asn | Pro | Thr | Ser | Pro | Glu | Pro | Asp | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Val | Asn | Tyr | Leu | Glu | Pro | Pro | Asn | Lys | Ser | Thr | Trp | Lys | Gln | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Thr | Tyr | Gly | Thr | Ile | Cys | Arg | Pro | Tyr | Gln | Pro | Pro | Asp | Thr | Ile |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ser | His | Phe | Asn | Cys | Leu | Pro | Leu | Lys | Xaa | Gly | Phe | Thr | Lys | Asn |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | |
|-----|-----|-----|-----|-----|
| Lys | Met | Val | Leu | Pro |
| | | | | 85 |

<210> 7216

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6413

<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (61)
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<400> 7216
Phe Ser Pro Ser Xaa Cys Leu Gln Xaa Cys Xaa Val Xaa Asn Leu Thr
1 5 10 15
Phe Asp Xaa Lys Thr Tyr Leu Ile Asn Asp Ser Thr Asn Phe Gly Lys
20 25 30
Lys Lys Pro Phe Xaa Lys Leu Xaa Lys Ile Pro Ile Leu Leu Asn Xaa
35 40 45
Pro Pro Ser Gly Thr Arg Glu Val Gln Asn Ser Phe Xaa Phe Gly Leu
50 55 60
Tyr Tyr Phe
65

6414

<210> 7217

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7217

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Thr | Ala | Glu | Ile | Ser | Lys | Phe | Cys | Leu | Lys | Ser | Asp | Lys | Val | Xaa |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Leu | Ala | Leu | Xaa | Lys | Val | Gly | Asp | Ile | Phe | Asp | Tyr | Ile | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Tyr | Leu | His | Ser | Xaa | Gln | Ala | Ser | Ser | Met | Asp | Cys | Lys | Asn | Leu |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Glu | Gln | His | Thr | Xaa | Leu | Gln | Ser | Glu | Gln | Met | Asn |
| | 50 | | | | | 55 | | | | | 60 | |

<210> 7218

<211> 48

<212> PRT

<213> Homo sapiens

<220>

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<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7218

6415

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 1 5 10 15
 Phe Gly Leu Tyr Phe Lys Ile Ser Lys Tyr Met Lys Pro Tyr Leu Gln
 20 25 30
 Xaa Ile Ser Phe Gly Phe Arg Leu Thr Leu Phe Trp Asn Ser Glu Asn
 35 40 45

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<400> 7219

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Gln | Xaa | Thr | Lys | Lys | Phe | Pro | Xaa | Phe | Tyr | Phe | Leu | Lys | Thr |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Leu | Xaa | Ile | Ser | Phe | Gly | Xaa | Arg | Xaa | Tyr | Ser | Leu | Phe | Leu | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ser | Leu | Leu | Trp | Pro | Leu | Val | Ser | Leu | Xaa | Phe | Leu | Ser | Gly | Xaa |
| | | 35 | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asn | Xaa | Xaa | Gly | Ala | Phe | Ser | Arg | Phe | Ala | His | Ser | Thr | Xaa | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Lys | His | Asp | Leu | Cys | Val | Asn | Gly | Ile | Val | Trp | Thr | Pro | Trp | Xaa |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Met | Leu | Gly | Lys | Thr | Lys | Glu | Gly | Pro | Glu | Leu | Pro | Thr | Ala | Gln |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gly | Xaa | Xaa | Xaa | Ala | Pro | Xaa | Leu | Glu | Leu | Lys | Pro | Pro | Pro | Lys |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | |
|-----|-----|-----|-----|
| Met | Xaa | Pro | Tyr |
| | | 115 | |

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<400> 7220

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Phe | Phe | Phe | Leu | Ile | Phe | Cys | Ser | Ser | Trp | Phe | Val | Leu | Lys | Cys |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

6418

1 5 10 15
Leu Thr Ile Trp Asn Val Lys Leu Leu His Val Leu Gln Ser Lys Ser
 20 25 30
Xaa Val Lys Ser Gly Xaa Val Lys Asn Ile Ile Pro Val Gly His Cys
 35 40 45
Pro His Phe Cys Ala Gly Gly
 50 55

<210> 7221

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 Xaa Ala Ser Tyr Phe Ile Leu Leu Leu Ser Phe Ser His Tyr Tyr Asn
 1 5 10 15

Val Ile Ile Gly Asp Leu Met Xaa Ser Gln Leu Phe Leu Ser Phe Met
 20 25 30

Asn Ser Gly Ser Lys Lys Xaa Pro Lys Cys Leu Ser Leu Xaa Xaa Ile
 35 40 45

Pro Gly Phe Xaa Gln Xaa Leu Xaa Ser Phe Trp Xaa Leu Xaa Xaa Thr
 50 55 60

Xaa Ile Pro Phe Xaa Lys Lys Leu Phe Thr Trp Phe Asp Xaa Asn Pro
 65 70 75 80

Gly Ser Ser Ile Ile Tyr Cys Leu Asn Xaa Gly Pro His Thr Xaa Pro
 85 90 95

Ser Phe Xaa Ser Xaa Pro Xaa Xaa Lys Asn Tyr Ile Leu Xaa Xaa Xaa

6421

100

105

110

Asn Lys Ile Leu Lys Asn
115

<210> 7222

<211> 121

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<213> Homo sapiens

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6423

<400> 7222

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Pro Ala Leu Xaa Gly Leu Ala Leu Phe Ala Ile Leu Trp Val Gly Cys
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Gly Ile Tyr Pro Pro Ser Leu Xaa Pro Xaa Pro Ala Ser Ser Thr Cys
              20              25              30

Ser Gly Xaa Xaa Leu Asn Thr Xaa Arg Xaa Ile Arg Ala Ser Xaa Xaa
      35              40              45

Xaa Asn Met Xaa Xaa Phe Pro Xaa Leu Lys Ile Ile Xaa Cys Phe Ser
      50              55              60

Phe Lys Lys Met Val Asn Xaa Ala Pro Leu Ala Lys Ser Pro Xaa Xaa
      65              70              75              80

Thr Arg Val Ser Phe Ser His Pro Leu Pro Phe Trp Glu Phe Phe Asn
              85              90              95

Pro Pro Phe Gln Xaa Leu Pro Leu Phe Leu Pro Trp Pro Phe Phe Leu
      100              105              110

Gly Ile Leu Arg Arg Ile Lys Lys Ser
      115              120

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<210> 7223

<211> 82

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6424

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6425

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 Leu Val Lys Leu Xaa His Xaa Thr Ser Tyr Asn Asp Gly Ile Tyr Phe
 20 25 30
 Ser Arg Xaa Xaa Xaa Leu Tyr Pro Leu Gln Xaa Leu Tyr Xaa Asp Leu
 35 40 45
 His Leu Leu Leu Thr Xaa Trp Lys Thr Phe His Ile Val Leu Ile Thr
 50 55 60
 Asn Tyr Leu Ser Cys Leu Xaa Val Thr Leu Ile Tyr Ile Cys Arg Phe
 65 70 75 80
 Ser Pro

<210> 7224
 <211> 78
 <212> PRT
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6427

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 Gly Gln Tyr Leu Asp Xaa Leu Pro Phe Tyr Leu Leu Phe Leu Leu Gln
 20 25 30
 Xaa Xaa Xaa Gln Gly Thr Ser Ile Met Ile Xaa Lys Ile Tyr Phe Ile
 35 40 45
 Asn Met Phe Xaa Phe Thr Phe His Leu Phe His Xaa Pro Xaa Glu Tyr
 50 55 60
 Arg Cys Leu Xaa Asn Leu Ser Leu Xaa Lys Leu Gln Phe Cys
 65 70 75

<210> 7225

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<400> 7225

Tyr Thr Lys Val Leu Pro Asn Arg Tyr Phe Tyr Xaa Glu Lys Phe Ile
 1 5 10 15

Xaa Lys Phe Leu Ser Leu Lys Phe Gly Phe Phe Ile Asn Leu Lys Cys
 20 25 30

Xaa Leu Arg Ile Thr Ile Leu Asn His Trp Asp Xaa
 35 40

6428

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6429

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<400> 7226

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Tyr | Ile | Thr | Pro | Pro | Phe | Ser | Xaa | Asn | Ser | Leu | Cys | Val | Lys | Ala |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Gly | His | Ile | Pro | Leu | Ile | Pro | Phe | Ile | Asn | Gln | Ile | Val | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Asn | Lys | Val | Gly | Xaa | Trp | Pro | Xaa | Asn | Ser | Phe | Lys | Xaa | Trp | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Glu | Ala | Gly | Lys | Phe | Gly | Leu | Phe | Xaa | Phe | Ser | Phe | Trp | Ala | Pro |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | His | Ser | Leu | Xaa | Trp | Met | Asn | Pro | Phe | Leu | Leu | Phe | Leu | Gly | Gln |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Lys | Lys | Thr | Xaa | Gly | Gly | Pro | Val | Pro | Xaa | Pro | Leu | Phe | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |

Phe

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<213> Homo sapiens

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<222> (74)
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<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7227
Thr Pro Arg Xaa Tyr Xaa Phe Phe Xaa Lys Ile Xaa Lys Ile Leu Gly

6432

| | | | |
|---|-----|-----|-----|
| 1 | 5 | 10 | 15 |
| Pro Tyr Phe Leu Ile His Phe Ser Ala Pro Xaa Pro Ser Phe Xaa Pro | 20 | 25 | 30 |
| Leu Xaa Xaa Phe Trp Val Asn Ser Xaa Ser Pro Gly Xaa Gly Pro Phe | 35 | 40 | 45 |
| Xaa Phe Ser Xaa Phe Pro Pro Pro Phe Pro Xaa Xaa Xaa Leu Lys Xaa | 50 | 55 | 60 |
| Pro Gln Pro Pro Xaa Phe Pro Pro Asn Xaa Xaa Xaa Phe Phe Pro Asn | 65 | 70 | 75 |
| Leu Asn Ser Pro Pro Val Pro Trp Val Pro Asn Phe Xaa Pro Leu Lys | 85 | 90 | 95 |
| Thr Phe Pro Glu Xaa Xaa Phe Phe Ile Xaa Lys Pro Leu Lys | 100 | 105 | 110 |

<210> 7228

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7228

| | | | | |
|---|----|----|----|----|
| Ala Ser Ile Ile Phe Phe Gln Val Gln Val Leu Lys Leu Leu Leu Asn | 1 | 5 | 10 | 15 |
| Leu Ser Glu Asn Pro Ala Met Thr Glu Gly Leu Leu Arg Ala Gln Val | 20 | 25 | 30 | |
| Asn Ser Leu Tyr Ile Tyr Phe Val Asn Ile His Ile Tyr Thr Phe Glu | 35 | 40 | 45 | |
| Gln Thr Asp Arg Ser Gly Lys Ile Lys Pro Lys Met Leu Gln Gly Phe | 50 | 55 | 60 | |
| Ser Leu Xaa Ser Ser Ile Lys Gly Gly Phe Leu Asn Ser Phe Cys Met | 65 | 70 | 75 | 80 |
| Tyr Glu Phe Pro Lys Phe Phe Ala Met Ser Leu Phe Tyr Phe | 85 | 90 | | |

6433

<210> 7229

<211> 47

<212> PRT

<213> Homo sapiens

<400> 7229

Ala Ala Arg Glu Leu Met Lys Ser Pro Ser Asn Phe Gln Ser His Thr
1 5 10 15

Cys Ile Tyr Cys Gln Asn Leu Ser Met Thr Asn Thr Lys Leu Lys Ser
20 25 30

Cys Phe Gln Arg Lys Lys Ile Ile Ser Leu Asn Tyr Phe Val Gly
35 40 45

<210> 7230

<211> 34

<212> PRT

<213> Homo sapiens

<220>

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<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7230

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg
1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr
20 25 30

Xaa Xaa

<210> 7231

<211> 93

<212> PRT

<213> Homo sapiens

6434

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<222> (33)
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6435

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7231

Leu Ala Leu Trp His Pro Val Leu Xaa Val Glu Leu Pro Gly Thr Xaa
1 5 10 15

Ser Val Ser Pro Glu Ala Thr Ser Leu Glu Ala Ala Xaa Arg Xaa Xaa
20 25 30

Xaa Ser Xaa Thr Thr Ile Phe Ile Val Ser Cys Val Ile Ala Tyr Phe
35 40 45

Thr Asn Phe Ala Xaa Ala Leu Asn Leu Leu Asn Leu Leu Trp Pro Pro
50 55 60

Pro Pro Xaa Lys Val Lys Xaa Val Asn Ser Asn Ser Xaa Pro Ala Pro
65 70 75 80

Gly Ser Ala Pro Val Ile Pro Thr Gly Trp Thr Lys Gly
85 90

<210> 7232

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6436

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 <222> (79)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (81)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (82)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 7232
 Ala Lys Ser Asp Phe Ser Glu Phe Gly Ala Lys Arg Lys Phe Thr Gln
 1 5 10 15
 Ser Phe Met Arg Ser Glu Glu Glu Gly Glu Lys Glu Arg Thr Glu Asn
 20 25 30
 Arg Glu Xaa Gly Arg Phe Ala Ser Gly Arg Arg Ser Gln Tyr Arg Arg
 35 40 45
 Ser Thr Asp Arg Glu Glu Glu Glu Xaa Met Asp Asp Glu Ala Ile Ile
 50 55 60
 Ala Ala Trp Arg Arg Arg Arg Glu Xaa Thr Arg Thr Xaa Leu Xaa Lys
 65 70 75 80
 Xaa Xaa Glu Asp

<210> 7233
 <211> 32
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>

6437

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7233

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Lys | Leu | Val | Val | Val | Ser | Leu | Glu | Asn | Val | Xaa | Lys | Met | Xaa | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Val | Leu | Met | Pro | Trp | Pro | Asp | Ser | Leu | Leu | Xaa | Phe | Ile | Glu | Ile |
| | | | 20 | | | | | 25 | | | | | 30 | | |

<210> 7234

<211> 89

<212> PRT

<213> Homo sapiens

<400> 7234

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Glu | Asn | Arg | Trp | Pro | Arg | Gly | Arg | Gln | Arg | Asn | Glu | Gly | Phe |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Ser | Cys | Thr | Glu | Gln | Ser | Ser | Pro | Gly | Thr | Asn | Leu | Glu | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Gln | Thr | Thr | Glu | Glu | Asp | Lys | Ile | Asn | Phe | Tyr | Ala | Phe | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Asn | Tyr | Gly | Gln | Asn | Asn | Ile | Arg | Thr | Lys | Thr | Phe | Met | Ile | Phe |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Leu | Gly | Phe | Val | Tyr | Gly | Tyr | Gln | Gln | Pro | Cys | Pro | Ala | Ile |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Phe | Ile | Leu | Phe | Gln | Ala | Gly | Cys |
| | | | | | 85 | | | |

<210> 7235

<211> 64

<212> PRT

<213> Homo sapiens

6438

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

6439

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7235

Phe Xaa Val Xaa Phe Glu Ser Xaa Ile Thr Trp Leu Lys Xaa Ile Pro
1 5 10 15

Thr Xaa Pro Glu Arg Asn Asn Pro Xaa Gly Thr Leu Thr Pro Pro Leu
20 25 30

Trp Lys Arg Gly Xaa Lys Ile Pro Pro Leu Ser Leu Ala Xaa Asn Phe
35 40 45

Phe Pro Leu Xaa Phe Leu Xaa Phe Xaa His Pro Phe Lys Lys Thr Phe
50 55 60

<210> 7236

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

6440

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7236

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Gly | Ser | Pro | Gly | Leu | Tyr | Xaa | Ile | Arg | Xaa | Xaa | Leu | Val | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Val | Arg | Xaa | Ile | Thr | Ser | Leu | Glu | Phe | Leu | Phe | Phe | Phe | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ile | Val | Ser | Leu | Xaa | Asn | Xaa | Leu | Phe | Asn | Xaa | Leu | Xaa | Ala | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |

Leu

<210> 7237

<211> 30

<212> PRT

<213> Homo sapiens

<400> 7237

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Pro | Arg | Asn | Glu | Gln | Ala | Gly | Leu | Pro | Leu | Tyr | Arg | Cys | Trp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Lys | Val | Phe | Asn | Cys | Lys | Leu | Gly | Gly | Phe | Gly | Asp |
| | | | 20 | | | | | 25 | | | | | 30 |

<210> 7238

<211> 60

<212> PRT

<213> Homo sapiens

6441

<220>
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 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (53)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7238
 Val Leu Cys Pro Phe His Val Xaa Ile Cys Xaa Leu Thr Ile Leu Leu
 1 5 10 15
 Xaa Pro Leu Ile Pro Ala Gln His Val Phe Trp Ser Met Lys Ile Val
 20 25 30
 Leu Lys Thr Lys Ala Asn Ala Cys Ser Leu Pro Leu Ser Xaa Xaa Lys
 35 40 45
 Ser Tyr Pro Lys Xaa Asp Phe Glu Phe Arg Ser Trp
 50 55 60

<210> 7239
 <211> 40
 <212> PRT
 <213> Homo sapiens

<220>

6442

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7239

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Arg | Ala | Arg | Ala | Glu | Phe | Gly | Thr | Arg | Gly | Gly | Pro | Val | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Pro | Tyr | Ser | Glu | Ser | Tyr | Tyr | Asn | Ser | Leu | Ala | Val | Val | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Arg | Arg | Asp | Trp | Thr | Xaa | Lys |
| | | | 35 | | | | 40 |

<210> 7240

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

6443

<220>
 <221> SITE
 <222> (100)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (119)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7240
 Pro Lys Ala Gln Phe Phe Glu Ser Leu Trp Pro Glu Leu Asp Ser Gln
 1 5 10 15
 Asp Ser Gly Ser Val Gln Arg Ala Arg Gly Thr Ala Ser Ser Ala Ala
 20 25 30
 Ala Pro Leu Met Pro Ser Pro Ala Leu Leu Pro Leu Pro Gly Leu Asn
 35 40 45
 Gly Val Ser Ile Glu Gly Trp Thr Pro Xaa Xaa Gly Glu Leu Val Pro
 50 55 60
 Cys Gly Tyr Lys Leu Gly Ala Ser Leu Arg Ala Val Pro Gly Xaa Met
 65 70 75 80
 Gly Ala Pro Leu Pro Pro Ala Thr Pro Pro Thr Xaa Lys Arg Xaa Asn
 85 90 95
 Xaa Thr Ser Xaa Ala Asn Pro Ser Pro Pro Gly Phe Ser Arg Gly Ala
 100 105 110
 Pro Gly Gln Lys Glu Leu Xaa Asn Cys Phe Gly Phe
 115 120

<210> 7241
 <211> 130
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

6444

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

6445

<220>
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 <222> (85)
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<220>
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<220>
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 <222> (106)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (107)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (111)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (119)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (124)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (130)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7241
 Val Leu Pro Ser Pro Phe Glu Ser Pro Gly Pro Lys Arg Asn Lys Ser
 1 5 10 15

Trp Ser Ser Xaa Ala Val Ala Val Ala Leu Glu Leu Leu Asp Pro Pro
 20 25 30

6446

Gly Cys Met Asn Ser Ala Xaa Ala Ala Ser Ser Pro Gly Xaa Gln Ser
 35 40 45

Pro Xaa Ala Pro Ser Gly Tyr Ser Xaa Xaa Xaa Trp Xaa Ser Gly Xaa
 50 55 60

Xaa Asp Ala Ala Arg Pro Pro Pro Thr Val Xaa Lys Ser Val Val Val
 65 70 75 80

Xaa Gly Gly Ile Xaa Gly Val Thr Cys Ala Xaa Gln Ser Ala Thr Leu
 85 90 95

Phe Pro Ser Glu Asp Ile Leu Leu Val Xaa Xaa Ser Pro Val Xaa Asn
 100 105 110

Glu Phe Gln Ile Ser Ser Xaa Phe Leu Tyr Xaa Xaa Asn Asn Ser Met
 115 120 125

Phe Xaa
 130

<210> 7242

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7242

Ile Ser Pro Phe Ser Glu Cys Leu Leu Lys Phe Met Pro Phe Phe Glu

6447

| | | | |
|---|----|----|----|
| 1 | 5 | 10 | 15 |
| Tyr Gly Ser Trp Thr Pro Thr Leu Leu Leu Pro Thr Pro Pro Arg Asn | | | |
| | 20 | 25 | 30 |
| Phe Leu Ile Cys Xaa Val Phe Phe Xaa Val Phe Xaa Asn Ser Xaa Val | | | |
| | 35 | 40 | 45 |
| Ile Ile Leu His Asn Phe Gly Tyr | | | |
| | 50 | 55 | |

<210> 7243

<211> 20

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7243

| |
|---|
| Val Glu Phe Phe Phe Phe Leu Lys Asn Xaa Leu Xaa Lys Ile Xaa |
| 1 5 10 15 |

| |
|-----------------|
| Pro Asn Thr Phe |
| 20 |

<210> 7244

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

6448

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (59)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7244
 Asp Phe Xaa Ala Arg Ile Pro Leu Arg Asn Xaa Ala Ser Leu Xaa Gly
 1 5 10 15
 Lys Lys Xaa Glu Leu His Arg Gly Gly Gly Arg Ser Thr Thr Ser Gly
 20 25 30
 Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Gly Asn Leu Val Met Ala
 35 40 45
 Val Val Xaa Glu His Pro Ala Phe Ala Xaa Xaa Pro Pro
 50 55 60

<210> 7245
 <211> 58
 <212> PRT
 <213> Homo sapiens

6449

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7245

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Tyr | Leu | Leu | His | Asn | Glu | Leu | Thr | Arg | Asn | Asn | Phe | Ala | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ala | Lys | Ala | Lys | Thr | Pro | Glu | Thr | Arg | Arg | Ala | Thr | Leu | Glu | Gln |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Glu | His | Thr | Arg | Leu | Cys | Xaa | Lys | Ile | Val | Gly | Lys | Ile | Tyr |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Lys | Arg | Gln | Thr | Tyr | Arg | Ala | Trp |
| | 50 | | | | | 55 | | | |

<210> 7246

<211> 55

<212> PRT

<213> Homo sapiens

<220>

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<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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6450

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7246
Phe Tyr Arg Xaa Ile Ser Asp Ser Met Ile Phe Ser Xaa Val Ile Val
1 5 10 15
Arg Xaa Met Cys Asn Val Xaa Ile Glu Thr Glu Xaa Tyr Lys Gly Gln
20 25 30
Val Thr Cys Gln Cys Asp Met Xaa Arg His Ile Tyr Xaa Xaa Thr Trp
35 40 45
Met Phe Leu Asn Leu Tyr Tyr
50 55

<210> 7247
<211> 31
<212> PRT
<213> Homo sapiens

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<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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6451

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7247

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Phe | Phe | Phe | Leu | Xaa | Xaa | Phe | Pro | Leu | Lys | Lys | Phe | Phe | Pro | Phe |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Xaa | Pro | Pro | Xaa | Phe | Pro | Phe | Leu | Asn | Ile | Ser | Lys | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | |

<210> 7248

<211> 37

<212> PRT

<213> Homo sapiens

<220>

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<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

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<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7248

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Val | Ile | Leu | Lys | Lys | Met | Ser | Ile | Gly | Ile | Tyr | Phe | Arg | Glu | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ser | Ile | Val | Xaa | Xaa | Leu | Pro | Pro | Pro | Xaa | Gly | Xaa | Glu | Gly | His |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Xaa | Leu | Trp | Val | Leu |
| | | | | 35 |

6452

<210> 7249

<211> 62

<212> PRT

<213> Homo sapiens

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<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7249

Pro Leu Asn Thr Pro Gln Ser Gln Xaa Xaa Leu Leu Xaa Gln Cys Ile

1

5

10

15

6453

Lys Phe Ile Tyr Phe Xaa Xaa Pro His Thr Ile Leu Gly Pro Leu Lys
 20 25 30

Pro Met Val Lys Leu Ala Ala Leu Glu Leu Thr Xaa Asp Gln Ile Leu
 35 40 45

Thr Leu Leu Leu Ser Asn Ile Xaa Asn Trp Xaa Ile Ser Phe
 50 55 60

<210> 7250

<211> 53

<212> PRT

<213> Homo sapiens

<400> 7250

Asn Ser Asn Leu Thr Gly His Lys Tyr Thr Phe Gly Tyr Val Tyr Leu
 1 5 10 15

Leu Leu Thr Lys Val Lys Arg Asn Val Leu Met His Ser Leu Asn Leu
 20 25 30

Lys Tyr Thr Tyr Ile Lys Phe Leu Lys Asp Ala Asn Leu Asn Pro Ile
 35 40 45

Leu Asn Glu Lys Val
 50

<210> 7251

<211> 45

<212> PRT

<213> Homo sapiens

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<220>

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6454

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<220>
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 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7251
 Xaa Glu Lys Asn Pro Ser Leu Lys Lys Pro Pro Pro Lys Lys Lys Lys
 1 5 10 15
 Asn Cys Ser Leu Ser Pro Leu Leu Xaa Gln Lys Phe Xaa Gly Xaa Xaa
 20 25 30
 Phe His Leu Cys Pro Pro Asn Phe Ser Xaa Phe Leu Val
 35 40 45

<210> 7252
 <211> 79
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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6455

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<222> (11)

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<221> SITE

<222> (13)

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<220>

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<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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6456

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<223> Xaa equals any of the naturally occurring L-amino acids

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6457

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<220>
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<220>
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<400> 7252
 Phe Xaa Val Xaa Asn Xaa Phe Tyr Xaa Xaa Xaa Xaa Xaa Leu Xaa Xaa
 1 5 10 15
 Xaa Xaa Leu Xaa Xaa Pro Met Xaa Lys Pro Pro His Cys Thr Glu Leu
 20 25 30
 Xaa Pro Xaa Gly Thr Xaa Ile Ile Ile Xaa Arg Val Xaa Xaa Phe Tyr
 35 40 45
 Gln Xaa Asn Leu Gln Ile Asn Ser Leu Gly Leu Xaa Pro Xaa Pro Xaa
 50 55 60
 Pro Xaa Xaa Ile Lys Xaa Lys Lys Lys Ser Xaa Leu Leu Glu Thr
 65 70 75

<210> 7253
 <211> 72
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)

6458

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<220>

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<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

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<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

6459

<400> 7253

Leu Asp Gln Lys Lys Ser Xaa Leu Phe Asp Leu Xaa Arg Xaa Asn Leu
1 5 10 15

Pro Xaa Leu Tyr Thr His Val Cys Val Ser Leu Lys Arg Xaa Val Arg
20 25 30

Leu Xaa Lys Ile Leu Ile Val Ile Asn His Val Xaa Thr Ser Cys Asn
35 40 45

Glu Leu His Asp Leu Ile Leu Ser Leu Leu Ala Xaa Thr Thr Xaa Tyr
50 55 60

Phe Ser Asn Xaa Xaa Ile Ser Pro
65 70

<210> 7254

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6460

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7254

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Pro | His | Glu | Xaa | Xaa | Pro | Pro | Lys | Lys | Leu | Xaa | Asn | Asn | Ser | Phe |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Xaa | Lys | Lys | Gly | Glu | Ser | Trp | Leu | Val | Ala | Gln | Asn | Tyr | Phe | Lys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ala | Pro | Xaa | Gly | Lys | Thr | Leu | Leu | Trp | Tyr | Phe | Ser | Xaa | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Xaa | Tyr | His | His | Xaa | Leu | Xaa | Trp | Phe | Ser | Gln | Phe | His | Ser | Gln |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Gly | Glu | Pro | Xaa | Pro | Ser | Cys |
| 65 | | | | | 70 | |

<210> 7255

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

6461

<400> 7255

Leu Thr Tyr Leu Leu Trp Phe Pro Ile Asn Asn Cys Ser Leu Leu Ile
1 5 10 15

Ile Val His Val Phe Tyr Val Ala Ser Asn Lys Leu Arg Gln Ser Tyr
20 25 30

Thr Ser Ala Phe Gln Xaa Gly Ser Leu Phe Leu His Thr
35 40 45

<210> 7256

<211> 116

<212> PRT

<213> Homo sapiens

<220>

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<222> (4)

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<220>

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<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (17)

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6462

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6463

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<220>
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<220>
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<220>
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<400> 7256
 Lys Glu Lys Xaa Glu Thr Xaa Xaa Arg Lys Xaa Tyr Phe Gly Leu Xaa
 1 5 10 15
 Xaa Leu Xaa Pro Ser Lys Asp Xaa Thr Leu Asn Leu Xaa Lys Lys Lys
 20 25 30
 Phe Gly Xaa Xaa Leu Ile Thr Ile Ile Xaa His Phe Thr Phe Xaa
 35 40 45
 Pro Gly Ser Leu Leu Xaa Phe Xaa Leu His Tyr Leu Pro Xaa Xaa Leu

6464

50 55 60
 Tyr His Pro Leu Lys Lys Phe Leu Xaa Xaa Tyr Ile Phe Ile Leu Pro
 65 70 75 80
 Phe Tyr Thr Lys Arg Xaa Asn Ser Gly Xaa Leu Val Gly Xaa Asn Pro
 85 90 95
 Leu Phe Ile Pro Pro Xaa Pro Phe Trp Glu Xaa Phe Lys Gly Xaa Lys
 100 105 110
 Gly Phe Phe Leu
 115

<210> 7257

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

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<220>

<221> SITE

<222> (33)

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<221> SITE

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<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7257

Ile Met Gly Leu Ser Leu Pro Tyr Ile Phe Leu Leu Lys Ser Ile Leu
 1 5 10 15

Xaa Gln Cys Arg Leu Ile Ile Tyr Asn Leu Ile Tyr Met Asn Ser Leu
 20 25 30

Xaa His Pro Ser Phe Ile Leu Thr Ile Ile Val Tyr Met Xaa Xaa Ile
 35 40 45

6465

Pro Asn
50

<210> 7258
<211> 25
<212> PRT
<213> Homo sapiens

<220>
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<220>
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<220>
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<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7258
Gly Lys Lys Glu Val Ala Pro Xaa Ser Glu Xaa Phe Ser Ile Thr Gly
1 5 10 15

Ala Ile Arg Gly Ala Gly Xaa Thr Ser
20 25

<210> 7259
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<220>
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6466

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<220>
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<220>
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<400> 7259
 Trp Ser Met Xaa Tyr Leu Gln Trp Asn Ile Gly Leu Gly Ile Phe Pro
 1 5 10 15
 Glu His Tyr Gln Val Ser Gly Trp Trp Glu Gly Trp Xaa Lys Pro Ile
 20 25 30
 Pro Leu Xaa Leu Xaa Lys Xaa Leu Val Xaa Ala Gly Leu Trp Leu Xaa
 35 40 45
 Leu Glu Ser Gly Leu Asn Pro Pro Tyr Xaa Gly Gly Xaa Trp Xaa Gly
 50 55 60

6467

Lys Asn Gln Glu Asn Phe Val Pro Phe Pro Pro Trp Gly Ser
 65 70 75

<210> 7260

<211> 33

<212> PRT

<213> Homo sapiens

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<400> 7260

Gln Asn Pro Ser Cys Xaa Ser Xaa His Leu Leu Xaa His Phe Asp His
 1 5 10 15

Leu Ala Ser Xaa Ala Arg His Thr Arg Xaa Arg Leu Arg Leu Ser Gln
 20 25 30

Lys

<210> 7261

<211> 76

<212> PRT

<213> Homo sapiens

6468

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<400> 7261
 Xaa Arg His Ala Leu Val Gly Ala Ile Cys Asp Pro Lys Asn Ser Thr
 1 5 10 15
 Phe Thr Ser Val Trp Leu Ile Leu Asn His Ser Ser Leu Cys Thr Tyr
 20 25 30
 Ile His Thr His Thr His Ser Gly Leu Thr Gln Lys Lys Lys Xaa Ile
 35 40 45
 Gln Thr Leu Gln Asn Tyr Pro Ser Phe Leu Tyr Xaa Leu Cys Arg Phe
 50 55 60
 Met Xaa Thr Thr Cys Asn Cys His Asn Pro Xaa Gly
 65 70 75

<210> 7262
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 <212> PRT
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6469

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 <400> 7262
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 1 5 10 15

 Gly Trp Thr Xaa Leu Xaa Leu Thr Gly Xaa Ser Xaa Gly Leu Ala Arg
 20 25 30

 Leu

<210> 7263
 <211> 72
 <212> PRT
 <213> Homo sapiens

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 Tyr Xaa Asn Met Gly Thr Arg Thr Xaa Gly Lys Gln Ile Xaa Thr Glu
 1 5 10 15
 Xaa Ser Xaa Pro Xaa Ser Xaa Phe Leu Ser Xaa Ser Leu Ile Xaa Xaa
 20 25 30
 Phe Ile Ile Xaa Xaa Ile Pro Xaa Val Leu Ser Met Leu Ile Xaa Xaa
 35 40 45
 Ser Trp Ser Leu Thr Pro Pro Xaa Ile Lys Ser Phe Gly Ile Ile Tyr
 50 55 60
 Asn Leu Leu Pro Xaa Phe Tyr Ser
 65 70

 <210> 7264
 <211> 52
 <212> PRT
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6472

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<400> 7264
 Leu Glu Ala Asp Gly Ala Val Xaa Asn Ser Cys Arg Ala Leu Lys Gly
 1 5 10 15

Glu Xaa Ala Asp Leu Gln Xaa Glu Gly Lys Xaa Leu Xaa Leu Xaa Gly
 20 25 30

Pro Cys Xaa Phe Leu Pro Pro Phe Pro Gln Pro Tyr Ser Cys Pro Pro
 35 40 45

Leu Lys Phe His
 50

<210> 7265

6473

<211> 64
<212> PRT
<213> Homo sapiens

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<220>
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6474

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<222> (48)

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<220>

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<222> (52)

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7265

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Leu | Lys | Ile | Thr | Ile | Asn | Lys | Xaa | Thr | Ala | Xaa | Lys | Leu | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Cys | Xaa | Ile | Thr | Ser | Xaa | Xaa | Xaa | Leu | Pro | Leu | Asp | His | Thr | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Trp | Ile | Ala | Lys | Xaa | Asp | Cys | Pro | Leu | Tyr | Asn | Gly | Gly | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Xaa | Leu | Xaa | Xaa | Leu | Asn | Asp | Gln | Glu | Gln | Phe | Cys | Gln | Asn | Val |
| | | 50 | | | | 55 | | | | | 60 | | | | |

<210> 7266

<211> 38

<212> PRT

<213> Homo sapiens

<220>

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6475

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<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7266
Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg
1 5 10 15
Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Ala Val Leu Gly Lys
20 25 30
Thr Gln Xaa Pro Xaa Xaa
35

<210> 7267
<211> 66
<212> PRT
<213> Homo sapiens

<220>
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<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7267
Pro Ser Thr Lys Pro Ser Cys Phe Gly Ala Asn Trp His Leu Xaa Pro
1 5 10 15
Phe Gly Gly Ser Asp Lys Gln Ile Lys Leu Gln Leu Ala Val Gln Asp
20 25 30
Ser Ala Arg Cys Leu His Leu Leu Val Glu Ser Lys Pro Cys Ala
35 40 45
Pro Phe Gln Ser Lys Ile Lys Gly Thr Gly Ile Phe Leu Glu Lys Lys
50 55 60
Xaa Ile

6476

65

<210> 7268
<211> 66
<212> PRT
<213> Homo sapiens

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<400> 7268
Phe Leu Asn Leu Thr Leu Arg Xaa Lys Met Glu Leu Xaa Ala Val Xaa

6477

| | | | |
|---|----|----|----|
| 1 | 5 | 10 | 15 |
| Asp Ala Leu Gln Leu Val Asp Pro Pro Gly Cys Arg Xaa Xaa Gly Thr | 20 | 25 | 30 |
| Arg Leu Phe Cys Ala Pro Val Leu His His Xaa Ser Met Ser Gln Val | 35 | 40 | 45 |
| Ile Met Phe Phe Cys Thr Arg Xaa Leu Gly Met Gln Arg Xaa Leu Glu | 50 | 55 | 60 |
| Leu Thr | 65 | | |

<210> 7269

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

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<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7269

| |
|---|
| Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser Tyr |
| 1 5 10 15 |

| |
|---|
| Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Leu Asp Trp Glu Asn Ser |
| 20 25 30 |

| |
|---|
| Cys Leu Xaa Asp Pro Xaa Asn His His Met Xaa Ile Pro Ile Xaa Thr |
| 35 40 45 |

6478

<210> 7270
<211> 20
<212> PRT
<213> Homo sapiens

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<400> 7270
Tyr Xaa Xaa Xaa Thr Leu Cys Gly Leu Cys Leu Gln Ser Ser Arg Lys
1 5 10 15

Xaa Lys Val Arg
20

<210> 7271
<211> 101
<212> PRT
<213> Homo sapiens

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<222> (37)
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6479

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<220>
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 <222> (99)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7271
 Leu Val Val Lys Tyr Ser Asp Ile Arg His Ser Pro Arg His Val Leu
 1 5 10 15
 His Thr Cys Thr His Thr Met Ser His Arg Gly His Thr Val Phe Arg
 20 25 30
 Ile Val Thr Ile Xaa Arg Xaa Ser Leu Leu Trp Tyr Met Leu Lys Tyr
 35 40 45
 Leu Leu Phe Trp Ala Lys Ala Pro Arg Gln Xaa Leu Leu Ile Met Val
 50 55 60

6480

Ala Gly Lys Arg Gly Xaa Glu Lys Arg Pro Gly Gln Val Lys Thr Xaa
 65 70 75 80

Phe Xaa Gln Xaa Leu Asn Ser Cys Leu Gln Xaa Trp Ala Glu Lys Gly
 85 90 95

Arg Lys Xaa Ser Phe
 100

<210> 7272

<211> 26

<212> PRT

<213> Homo sapiens

<400> 7272

Asn Lys Leu Ile Val Asn Ile Leu Pro Lys Arg Ile Ser Ile Arg Tyr
 1 5 10 15

Ile Asn Leu Leu Met Asp Ser Gln Thr Met
 20 25

<210> 7273

<211> 37

<212> PRT

<213> Homo sapiens

<220>

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<222> (34)

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<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7273

Ala Ala Arg Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile
 1 5 10 15

Val Ser Arg Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr
 20 25 30

6481

Gly Xaa Pro Xaa Xaa
35

<210> 7274

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (54)

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<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7274

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Cys | Ser | Glu | Thr | Gly | Ala | Ala | Ser | Leu | Leu | Arg | Ala | Gly | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Ser | Ser | Phe | Arg | Thr | Glu | Arg | Leu | Phe | Gln | Phe | Gly | Ser | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Glu | Lys | Xaa | His | Phe | Xaa | Lys | Phe | Pro | Asn | Glu | Thr | Lys | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Pro | Phe | Ser | Xaa | Pro | Cys | Ser | Thr | Ala | His | Xaa |
| | 50 | | | | | 55 | | | | | 60 | |

<210> 7275

<211> 38

<212> PRT

<213> Homo sapiens

6482

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 <222> (37)
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<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7275
 Ala His Gly Ile Lys Gln Thr Ser Xaa Tyr Ile Pro Xaa Tyr Pro Arg
 1 5 10 15
 Ile Phe Leu Lys Leu Met Cys Leu Ser His Ala Phe Asn His Phe Xaa
 20 25 30
 His Leu Lys Thr Xaa Xaa
 35

<210> 7276
 <211> 43
 <212> PRT
 <213> Homo sapiens

<220>
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<220>
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 <222> (43)
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6483

<400> 7276

Ala Ala Arg Ala Ala Arg Ala Ala Arg Ala Ala Arg Gly Gly Ala Arg
1 5 10 15

Tyr Pro Ile Arg Pro Ile Val Ser Arg Ile Thr Ile His Trp Pro Ser
20 25 30

Phe Tyr Asn Val Val Thr Gly Xaa Pro Lys Xaa
35 40

<210> 7277

<211> 60

<212> PRT

<213> Homo sapiens

<220>

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<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7277

Xaa Phe Leu Ile Leu Leu Leu Leu Ala Pro Ser Val Xaa Ile Asn Tyr
1 5 10 15

6484

Ile Phe Leu His Gln Ile Phe Tyr Thr Ile Arg Phe Phe Asp Xaa Lys
20 25 30

Ile Ile Phe Ser Phe Thr Leu Leu Ile Ser Glu Gly His Lys Ile Lys
35 40 45

Tyr Phe Leu Val His Asp Xaa Xaa Ser Leu Leu Xaa
50 55 60

<210> 7278

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

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<221> SITE

<222> (43)

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<222> (48)

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<220>

<221> SITE

<222> (52)

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<221> SITE

$\langle 222 \rangle$ (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7278

Leu Asn Asn Ile Lys Ser His Val Lys Gly Pro Phe Ala Ser Val Pro
1 5 10 15

Phe Thr Gln Tyr Ile Thr Phe Ser Phe Gln Gln Lys Lys Leu Xaa Gly
20 25 30

Ile Leu Lys Gly Gln Lys Asn Ser Leu Lys Xaa Asp Ser Lys Gln Xaa
35 40 45

6485

Asp Lys Thr Xaa Ile Trp Arg Lys Met Leu Lys Ser Ser Asp Trp Lys
50 55 60

Phe Xaa Thr
65

<210> 7279
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7279
Thr Cys Xaa Ser Lys Xaa Gly Pro Xaa Lys Asn Xaa Arg Leu Asn Leu

6486

| | | | |
|---|----|----|----|
| 1 | 5 | 10 | 15 |
| Tyr Arg Gly Xaa Gly Arg Phe Lys Ile Xaa Gly Ser Pro Gly Xaa Lys | | | |
| | 20 | 25 | 30 |

Glu

<210> 7280

<211> 24

<212> PRT

<213> Homo sapiens

<220>

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<400> 7280

| |
|---|
| Lys Gly Lys Leu Asn Ile Ala Lys Lys Lys Lys Gly Phe Lys Xaa Gly |
| 1 5 10 15 |

| |
|---------------------------------|
| Ala Xaa Gly Xaa Pro Phe Xaa Ser |
| 20 |

<210> 7281

<211> 40

<212> PRT

<213> Homo sapiens

<400> 7281

His Val Ser Ser Phe Arg Lys Gln Leu Tyr Cys His Thr Ile Val Gly

6487

1 5 10 15
 Arg Lys Thr Phe Ile Trp Asn Ile His Tyr Cys Lys Phe Val Gln Ile
 20 25 30
 Ile Tyr Leu Pro Pro Val Phe Ala
 35 40

<210> 7282

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7282

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg
 1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr
 20 25 30

Gln Xaa Xaa Xaa
 35

<210> 7283

<211> 37

<212> PRT

<213> Homo sapiens

<400> 7283

Thr Val Pro Pro Cys Leu Pro Ala Phe Ala Glu Leu Glu Leu Ser Leu
 1 5 10 15

6488

Ser Ala Cys Ser Thr Tyr Thr Leu Pro Val His Trp Leu Ser Asn Arg
20 25 30

Phe Lys Glu Arg Ser
35

<210> 7284

<211> 19

<212> PRT

<213> Homo sapiens

<220>

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<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (14)

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<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7284

Ala Ser Phe Phe Phe Phe Phe Leu Asn Leu Xaa Asp Xaa Phe Phe
1 5 10 15

Xaa Xaa Phe

<210> 7285

<211> 70

<212> PRT

<213> Homo sapiens

<220>

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<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

6489

<220>

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<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7285

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Ile | Ser | Ser | Leu | Val | Leu | Asn | Glu | Gly | Gln | Val | Trp | Leu | Ala | Val |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Arg | His | Ser | Phe | His | Gly | Gly | Arg | Leu | Ala | Ala | Asn | Arg | Gln | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Pro | Lys | His | Ser | Gly | Leu | Leu | Lys | Ala | Gly | Gly | Val | His | Xaa | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Cys | Trp | Arg | Ala | Val | Glu | Leu | Phe | Pro | Gly | Ile | Arg | Phe | Gly | Phe |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Thr | Ile | Pro | Xaa |
| 65 | | | | | 70 |

<210> 7286

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

6490

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7286

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Ile | Lys | Asn | Gly | Phe | Leu | Leu | Ser | Ala | Pro | Met | Xaa | Gly | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Cys | Gly | Val | Thr | Ser | Gln | Cys | Arg | Ser | Phe | Ser | Trp | Ser | Pro | Asp |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Ser | Leu | Ile | Pro | Asp | Gln | Gly | Leu | Val | Xaa | Phe | Lys | Asn | Ser | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Xaa | Asn | Ala | Trp | Leu | Val | Gln | Xaa | Glu | Cys | Phe | Phe | His | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ser | Ser | Ser | Pro | Val | Phe | Thr | His | Xaa | Xaa | Ile | Pro | His | Ser | Phe |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Thr | Lys | Ser | Thr | Pro | Xaa | Gly | Cys | Cys | Leu | Pro | Tyr | Phe | Pro | Asn |
| | | | | 85 | | | | | 90 | | | | | 95 | |

Phe Pro

<210> 7287

<211> 57

<212> PRT

<213> Homo sapiens

6491

<220>
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 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (57)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7287
 Leu Tyr Leu Leu Lys His Val His Leu His Ile Phe Thr Gly Leu Leu
 1 5 10 15
 Thr Val His Phe Xaa Ser Ser Arg Lys Trp His Gln Xaa Gly Ser Thr
 20 25 30
 Lys Asn Met Ile Thr Lys Asn Ile Ile Ile Ile Pro Phe Xaa Lys Thr
 35 40 45
 Xaa Xaa Pro Arg Leu Pro Asn Phe Xaa
 50 55

<210> 7288
 <211> 41
 <212> PRT
 <213> Homo sapiens

6492

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7288
Leu Val Ser Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser
1 5 10 15
Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn
20 25 30
Pro Ser Xaa Xaa Phe Phe Ser Xaa Ala
35 40

<210> 7289
<211> 21
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

6493

<400> 7289

Cys Glu Ala Ser Trp Xaa Leu Cys Xaa Gly Lys Trp Tyr Gln Xaa Thr
1 5 10 15

Ala Trp Pro Pro Xaa
20

<210> 7290

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7290

Glu Asn Thr Glu Cys Val His Gln Ile Leu Ser Ala Ala Val Xaa Phe
1 5 10 15

Cys Leu Leu Phe Xaa Leu Ser Ser Asp Val Thr Phe Ile Lys Asp Asn
20 25 30

Pro Leu Arg Thr Leu Phe Tyr Phe Leu Thr Asn Gln Asn Val Val Phe
35 40 45

Lys

<210> 7291

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6494

<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7291
Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg
1 5 10 15
Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Xaa Thr Gly Lys Pro
20 25 30
Xaa Xaa

<210> 7292
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7292
Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Xaa Xaa Arg
1 5 10 15
Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Phe Val Thr Gly Thr Pro
20 25 30
Lys Xaa

6495

<210> 7293
 <211> 34
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7293
 Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Xaa Xaa Arg
 1 5 10 15
 Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Pro
 20 25 30
 Xaa Xaa

<210> 7294
 <211> 36
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

6496

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7294

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ile | Xaa | Ser | Leu | Lys | Ser | Thr | Phe | Lys | Ala | Phe | Gln | Ile | Lys | Lys |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Asn | Leu | Thr | Asn | Cys | Ser | Leu | Leu | Ile | Ser | Xaa | Asn | Glu | Ile | Met |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | |
|-----|-----|-----|-----|
| Asn | Val | Leu | Ala |
| | | | 35 |

<210> 7295

<211> 18

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7295

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Leu | Glu | Phe | Phe | Phe | Phe | Phe | Phe | Lys | Xaa | Xaa | Xaa | Xaa | Asn |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

Xaa Asn

6497

<210> 7296

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7296

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Lys | Trp | Ala | Ala | Trp | Ile | Ser | His | His | Pro | Met | Ser | Ala | Ala | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Val | Ser | Leu | Thr | Val | Ser | Trp | Val | Cys | Gly | Gly | Asp | Trp | Gly | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Lys | Gly | Trp | Xaa | Gly | Xaa | Leu | Lys | Arg | Lys | Gln | Leu | Gln | Pro | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gln | Thr | Gly | Cys | Arg | Val | Thr | Pro | Ser | Ser | His | Leu | Glu | Ser | Trp |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Pro | Pro | Thr | Leu | Ile | His | Pro | Val | Pro | Gln | Pro |
| 65 | | | | | 70 | | | | | 75 | |

<210> 7297

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

6498

<400> 7297

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg
1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr
20 25 30

Gln Xaa Xaa
35

<210> 7298

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

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<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

6499

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 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<220>
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 <222> (79)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7298
 Lys Asn Pro Lys Pro Leu Pro Val Val Leu Tyr Tyr Asn Cys Leu Asn
 1 5 10 15
 Trp Gly Xaa Xaa Thr Pro Pro Cys Phe Pro Phe Xaa Pro Gln Ile Xaa
 20 25 30
 Xaa Leu His Phe Leu Leu Gly Ser Gln Phe Xaa Lys Ile Pro His Xaa
 35 40 45
 Lys Phe Xaa His Trp Ala Pro Xaa Xaa Xaa Lys Thr Pro Ile Ser His
 50 55 60
 Ser Leu Glu Gly Leu Glu Lys Thr Xaa Gly Lys Phe Leu Glu Xaa Asn
 65 70 75 80

6500

Pro Phe Phe Xaa

<210> 7299

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7299

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Cys | Ala | Arg | Phe | Val | Lys | Ile | Thr | Leu | Phe | Leu | Lys | Leu | Phe | Xaa |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Val | Ser | Leu | Pro | His | Ala | Tyr | Xaa | Pro | Lys | Xaa | Leu | Gly | Ile | Lys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Thr | Thr | Ala | Pro | Gly | Gln | Ile | Pro | Val | Pro | Phe | Pro | Lys | Lys |
| | | | 35 | | | | 40 | | | | | 45 | | | |

6501

Thr Pro Asn Leu Thr Leu Glu Leu Ile Gln Phe Xaa Pro Xaa Phe Ile
50 55 60

Leu Lys Leu Xaa
65

<210> 7300

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7300

Trp Ile Ile Glu Phe Tyr Leu Xaa Lys Glu Lys Leu His Glu Lys His
1 5 10 15

Ile Ser Lys Phe Lys Asn Lys Glu Ser Lys Ser Thr Ser Thr Ser Thr
20 25 30

Cys Leu Ile Ile Pro Thr Phe His Leu Ile Ser Ile Tyr Ile
35 40 45

<210> 7301

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> SITE
<222> (40)
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<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7301
Pro His Thr Arg Ala Leu Thr Glu Xaa Met Pro Arg His Leu Cys Pro
 1             5             10             15
Val Ser Phe Ile Pro Xaa Xaa Val Cys Leu Lys Ile Phe Pro Gln Pro
             20             25             30
Glu Ser Phe Pro Asn His Leu Xaa Lys Lys Xaa Tyr Ala Ser Leu Xaa
             35             40             45
Thr Leu Leu Arg Thr Gln Leu Leu Leu Leu Lys Ala Ser Ala Thr Ser
 50             55             60
Xaa Xaa Pro Pro Lys Leu Lys Xaa Ser Ala Phe Ser Gly Gly Pro Gly
 65             70             75             80
Xaa

```

6503

<210> 7302

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6504

<222> (59)
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<220>
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6505

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<400> 7302

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| Gln | Tyr | Val | Thr | Gly | Ala | Pro | Phe | Val | Ser | Ile | His | Lys | Glu | Leu | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Leu | Cys | Tyr | Ser | Xaa | Thr | Met | Xaa | Met | Phe | His | Ser | Leu | Thr | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Pro | Xaa | Xaa | Trp | Ile | Pro | Tyr | Xaa | Tyr | Cys | Xaa | Gln | Val | Leu |
| | | | 35 | | | | | 40 | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ser | Val | Thr | Cys | Val | Ile | Ser | Xaa | Phe | Xaa | Ser | Cys | Cys | Xaa | Phe |
| | | | | | | 50 | | 55 | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Tyr | Xaa | Ile | Asn | Xaa | Pro | Lys | Ile | Asn | Trp | Cys | Val | Xaa | Xaa | Val |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

6506

[illegible]

<210> 7303

<211> 36

<212> PRT

<213> Homo sapiens

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$\langle 222 \rangle$ (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7303

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg
1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Xaa Val Thr Gly Lys Thr
20 25 30

Gln Xaa Xaa Xaa
35

<210> 7304

6507

<211> 82
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<213> Homo sapiens

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6508

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<400> 7304

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Phe | Leu | Xaa | Xaa | Xaa | Ile | Tyr | Lys | Trp | Asp | Xaa | Met | Thr | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Xaa | Gln | Xaa | Xaa | Asn | Xaa | Xaa | Xaa | Gly | Thr | Xaa | His | Ile | Cys | Asn |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Lys | Trp | Ala | Ala | Leu | Lys | Xaa | Ser | Phe | Ala | Val | Lys | Ser | Gln | Cys |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | His | Xaa | Lys | Xaa | Ser | Ser | Gly | Leu | Gln | Leu | Ile | Tyr | Ser | Cys | Pro |
| | 50 | | | | | 55 | | | | | 60 | | | | |

6509

Xaa Cys Ser Ser Leu Ala Pro Leu Asn Val Leu His Lys Xaa Gly Xaa
65 70 75 80

Trp Ala

<210> 7305

<211> 102

<212> PRT

<213> Homo sapiens

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<222> (85)

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<222> (86)

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<400> 7305

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Lys | Ile | Leu | Phe | Ile | Gly | Pro | Xaa | Ile | Tyr | Trp | Leu | Trp | Gly | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Xaa | Xaa | Leu | Arg | Glu | Arg | Pro | Thr | Leu | Lys | His | Xaa | Pro | Met | Cys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Asp | Val | His | Arg | Met | Xaa | Ser | Xaa | Pro | Arg | Xaa | Leu | Ser | Tyr | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Xaa | Lys | Pro | Pro | Leu | Trp | Ala | His | Leu | Val | His | Phe | Xaa | Asn |
| | | | 50 | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Xaa | Pro | Xaa | Lys | Gly | Phe | Phe | Pro | Arg | Phe | Pro | Lys | Gly | Pro |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

6511

65 70 75 80

Pro Xaa Gly Val Xaa Xaa Pro Ser Lys His Lys Gly Pro Ala Leu Ile
 85 90 95

Asn Leu Glu Val Gly Asn
 100

<210> 7306

<211> 34

<212> PRT

<213> Homo sapiens

<220>

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<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (17)

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$\langle 220 \rangle$

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<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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$\langle 222 \rangle$ (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7306

Gly Pro Gly Arg Phe Pro Ile Leu Gly Arg Lys Lys Lys Asn Xaa Trp
1 5 10 15

Xaa Pro Phe Lys Lys Thr Xaa Ser Leu Lys Lys Lys Asn Phe Xaa Xaa
20 25 30

Gly Lys

6512

<210> 7307

<211> 34

<212> PRT

<213> Homo sapiens

<220>

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<400> 7307

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Arg | Gly | Gly | Ala | Arg | Tyr | Pro | Ile | Arg | Pro | Ile | Val | Ser | Arg |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Thr | Ile | His | Trp | Pro | Ser | Phe | Tyr | Asn | Val | Val | Thr | Gly | Lys | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Gln Xaa

<210> 7308

<211> 102

<212> PRT

<213> Homo sapiens

<220>

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6513

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<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7308

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Thr | Xaa | Leu | Thr | Ser | Ser | Pro | Cys | Trp | Pro | Leu | Glu | Gly | Ser | Val |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Arg | Lys | Gly | Lys | Pro | Ser | Leu | Leu | Glu | Leu | Pro | Phe | Gly | Ile | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Arg | Leu | Asn | Phe | Xaa | Thr | Pro | Cys | Phe | Ile | Xaa | Xaa | Ile | Thr | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Pro | Ile | Xaa | Xaa | Asn | Pro | Asn | Phe | Glu | Pro | Phe | Ile | Cys | His | Gln |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Pro | Phe | Phe | Tyr | Leu | Pro | Thr | Ile | Ser | Gln | Xaa | Pro | Arg | Phe |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Thr | Ser | Xaa | Ile | Pro | Asn | Leu | Gln | Leu | Ser | Leu | His | Arg | Xaa | Ile |
| | | | | 85 | | | | | 90 | | | | | 95 | |

6514

Phe Pro Asn Leu Leu Cys
100

<210> 7309

<211> 23

<212> PRT

<213> Homo sapiens

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<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7309

Gly Gln Xaa Xaa Arg Ile Pro Gly Cys Ala Ile Pro Xaa Cys Xaa Gly

1

5

10

15

Leu Leu Gly Xaa Ser Tyr Phe

20

<210> 7310

<211> 37

<212> PRT

<213> Homo sapiens

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6515

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<400> 7310
 Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Xaa Pro Ile Val Ser Xaa
 1 5 10 15
 Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr
 20 25 30
 Gln Asn Xaa Xaa Xaa
 35

<210> 7311
 <211> 38
 <212> PRT
 <213> Homo sapiens

<220>
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<400> 7311

Ala Ala Arg Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile
1 5 10 15

Val Ser Arg Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Xaa Val Thr
20 25 30

Gly Lys Thr Xaa Gly Xaa
35

<210> 7312

<211> 60

<212> PRT

<213> Homo sapiens

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6517

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<220>
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<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7312
Val Ile Gln Leu Ser Asp Gly Ser Xaa Val Xaa Thr Leu Ser Asp Glu
1 5 10 15
Asp Ser Xaa Tyr Arg Cys Xaa Gly Tyr Asn Val Arg Leu Leu Ala Leu
20 25 30
Glu Ile Ala His Gly Leu Ser Ser Ser Leu Gln Ser Xaa Xaa Leu Val
35 40 45
Asp Gln Lys Cys Xaa Ser Asp Ile Glu Xaa Xaa Lys
50 55 60

<210> 7313
<211> 98
<212> PRT
<213> Homo sapiens

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6518

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6519

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<400> 7313

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Thr | Gly | Leu | Met | Xaa | Asn | Ser | Asn | Val | Arg | Leu | Thr | Glu | Thr | Asp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Gly | Ile | Tyr | Pro | Asp | Phe | Lys | Arg | Xaa | Pro | Xaa | Pro | Xaa | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Xaa | Xaa | Ile | Trp | Leu | Ser | Xaa | Xaa | Pro | Xaa | Gln | Tyr | Trp | Ile | Trp |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

6520

| 35 | | | | | 40 | | | | | 45 | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Xaa | Ser | Pro | Asn | Pro | Thr | Xaa | Ile | Met | Ala | Xaa | Thr | Xaa | Ala | Val | Gly | |
| 50 | | | | | 55 | | | | | 60 | | | | | | |
| Ile | Xaa | Ile | Gly | Gly | Pro | Xaa | Xaa | Leu | Phe | Xaa | Xaa | Ile | Pro | Gly | Ser | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| Xaa | Ala | Lys | Phe | Pro | Trp | Gly | Trp | Gly | Asn | Gln | Xaa | Pro | Cys | Cys | Leu | |
| 85 | | | | | 90 | | | | | 95 | | | | | | |

Lys Asn

<210> 7314

<211> 127

<212> PRT

<213> Homo sapiens

<220>

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<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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6521

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6522

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<400> 7314
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 1 5 10 15
 Asn Ala His Gly Gly Ala Leu Gln Val Ser Ala Xaa Pro Xaa Pro Ala
 20 25 30
 Ser Pro Ala Leu Leu Ser Gln Ala Xaa Xaa Arg Arg Gly Thr Leu Xaa
 35 40 45
 Thr Pro Ser Leu Gly Ser Xaa Xaa Ile Gly His Lys Ser Leu Xaa Cys
 50 55 60
 Xaa Gly Xaa Ala Gln Val His Ile Xaa Glu His Leu Xaa Met Xaa Leu
 65 70 75 80
 Gly Glu Pro Ser Ala Gln Pro Thr Ser Gly Lys Asn Lys Phe Trp Gly
 85 90 95
 His Gly Ala Pro Lys Lys Thr Xaa Ile Glu Tyr Phe Cys Leu Phe Xaa
 100 105 110
 Ser Ala Xaa His Xaa Lys Leu Pro Xaa Glu Asn Phe Leu Gln Thr
 115 120 125

<210> 7315
 <211> 79
 <212> PRT
 <213> Homo sapiens

6523

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<400> 7315
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 1 5 10 15
 Leu Gln Phe Lys Met Lys Ser Val Ser Phe Phe Leu Tyr Phe Ser Ala
 20 25 30
 Lys Gln Asp Ala Thr Leu Xaa Leu Pro Pro Leu Thr Ile Asn Arg Xaa
 35 40 45
 His Ser Gly Leu Lys Ala Ala Pro Pro Phe Asn Leu Xaa Ile Trp Gln
 50 55 60
 Thr Xaa Ser Leu Glu Xaa Asn Ser Ala Xaa Ile Phe Phe Leu Asn
 65 70 75

<210> 7316
 <211> 45
 <212> PRT

6524

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7316

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Ser | His | Leu | Ser | Gln | Leu | Asn | Asn | Val | Thr | Pro | Pro | Pro | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Lys | Ile | Cys | Leu | Leu | Tyr | Phe | Tyr | Leu | Arg | Phe | Lys | Ser | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Phe | Tyr | Glu | Ser | Leu | Val | Xaa | Ser | Ser | Xaa | Leu | Tyr |
| | | 35 | | | | | 40 | | | | | 45 |

<210> 7317

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7317

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Arg | Ala | Ala | Arg | Gly | Gly | Ala | Arg | Tyr | Pro | Ile | Arg | Pro | Ile |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Arg | Ile | Thr | Ile | His | Trp | Pro | Ser | Phe | Tyr | Asn | Val | Val | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

6525

Gly Lys Thr Xaa Xaa Xaa
35

<210> 7318

<211> 19

<212> PRT

<213> Homo sapiens

<220>

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<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

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<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7318

Gly Thr Arg Val Cys Phe Phe Phe Lys Xaa Gly Leu Xaa Phe Xaa Gly
1 5 10 15

Xaa Arg Xaa

<210> 7319

<211> 35

<212> PRT

<213> Homo sapiens

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6526

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<220>

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<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7319

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Arg | Gly | Gly | Ala | Arg | Tyr | Pro | Ile | Arg | Pro | Ile | Val | Ser | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Thr | Ile | His | Trp | Pro | Ser | Phe | Tyr | Asn | Val | Val | Thr | Gly | Asn | Pro |
| | | | 20 | | | | | 25 | | | | | | 30 | |

| | | |
|-----|-----|-----|
| Xaa | Xaa | Xaa |
| | | 35 |

<210> 7320

<211> 51

<212> PRT

<213> Homo sapiens

<400> 7320

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Lys | Met | Arg | Ile | Thr | Ile | Pro | Asn | Val | Lys | Pro | Gly | Leu | Glu | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Leu | Ala | Gln | Phe | Ser | Ile | Ser | Ser | Gln | Cys | Tyr | Asn | Leu | Ile |
| | | | 20 | | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Leu | Val | Arg | Lys | Leu | Asn | Lys | Met | Asp | Ser | Leu | Arg | Phe | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | |
|-----|-----|-----|
| Val | Arg | Ile |
| | | 50 |

<210> 7321

<211> 51

<212> PRT

<213> Homo sapiens

<220>

6527

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7321

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Xaa | Val | Met | Glu | Thr | Phe | His | Met | Lys | Pro | Ser | Leu | Thr | Glu | Ile |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Leu | Leu | Asn | Asn | Ser | Xaa | Asn | Phe | His | Leu | Gln | Ser | Val | Trp |
| | | | 20 | | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Phe | Met | Xaa | Val | Xaa | Glu | Ser | His | Leu | Xaa | Gln | Cys | Leu | Ile | Thr |
| | | 35 | | | | | | 40 | | | | 45 | | | |

| | | |
|-----|-----|-----|
| Ser | Leu | Pro |
| | | 50 |

<210> 7322

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6528

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7322

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Val | Tyr | Lys | Arg | Trp | Xaa | Leu | His | Arg | Gly | Pro | Arg | Lys | Asn | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Leu | Met | Asp | Pro | Pro | Gly | Cys | Arg | Xaa | Phe | Gly | Thr | Xaa | Gly | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Asn | Ala | Xaa | Phe | Ile | Xaa |
| | | | | | 35 |

<210> 7323

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

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<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6529

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7323

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Tyr | Trp | Ile | Pro | Arg | Ala | Ala | Xaa | Asn | Ser | Val | Arg | Xaa | Glu | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asn | Pro | Met | Arg | Val | Thr | Ser | His | Pro | Thr | Asn | Ser | Val | Ser | Thr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Phe | Cys | Val | Gly | Glu | Xaa |
| | | | 35 | | |

<210> 7324

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

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<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7324

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Glu | Pro | Ala | Gln | Ala | Lys | Trp | Thr | Leu | His | Trp | Ser | Asp | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Cys | Phe | Gln | Ala | Cys | Pro | Ser | Asn | Leu | Pro | His | Val | Leu | Cys | Leu |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

6530

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| | 20 | | 25 | | 30 | |
| Leu | Phe | Ser | Leu | Pro | Arg | Ser |
| | 35 | | 40 | | 45 | |
| Gln | Trp | Xaa | Ile | Gly | Xaa | His |
| | 50 | | 55 | | 60 | |
| | | | | | | |
| Xaa | Lys | His | His | Gly | | |
| | 65 | | | | | |

<210> 7325

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>

<221> SITE

<222> (70)

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<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7325

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Xaa | Arg | Val | Leu | Leu | Asn | Lys | Gly | Asn | Lys | Arg | Pro | Ser | Ser | Thr |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

6531

Xaa Gly Gly Xaa Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu
20 25 30
Ser Gly Thr Ser Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr
35 40 45
Ser Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp
50 55 60
Trp Glu Asn Pro Lys Xaa Xaa Xaa Phe Phe Val
65 70 75

<210> 7326

<211> 66

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (11)

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<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<220>

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<220>

6532

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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7326
Tyr Xaa Xaa Val Asp Pro Pro Leu Asn His Xaa Pro Xaa Leu Ser Leu
1 5 10 15
Thr Lys Arg Lys Pro Ser Pro His Ser Leu Asn Leu Ile His His Ser
20 25 30
Arg Gln Xaa Arg Trp Ile Lys Pro Xaa Pro Ala Thr Gln Asn Leu Xaa
35 40 45
Ile Leu Leu Asn Xaa Pro His Xaa Met Asn Asn Ser Ser Ser Thr Val
50 55 60
Gln Thr
65

<210> 7327
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (43)
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6533

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7327

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Lys | Ile | Pro | Asp | Tyr | Val | Ala | Leu | His | Val | Arg | Asp | Pro | Lys | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Arg | Leu | Ser | Thr | Gly | Arg | Val | Pro | Glu | Xaa | Asn | Leu | Val | Ser | Arg |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gln | Ile | Asp | Phe | Asp | Gly | Xaa | Asp | Phe | Xaa | Xaa |
| | | 35 | | | | | 40 | | | | |

<210> 7328

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7328

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Xaa | Gly | Gly | Ala | Arg | Tyr | Pro | Ile | Arg | Pro | Ile | Val | Ser | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Thr | Ile | His | Trp | Pro | Ser | Phe | Tyr | Asn | Val | Val | Thr | Gly | Lys | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Xaa | Val | Xaa | Xaa | Phe | Ser |
|-----|-----|-----|-----|-----|-----|

6534

35

<210> 7329
<211> 18
<212> PRT
<213> Homo sapiens

<220>
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<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7329
Asp Xaa Thr His Ser Asp Arg Cys Cys Xaa Val Pro Xaa Asn His Xaa
1 5 10 15

His Cys

<210> 7330
<211> 97
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)

6535

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7330

Phe Gly Leu Ser His Leu Pro Pro Leu His Cys Arg Leu Cys Thr Lys

1 5 10 15

Pro Arg Tyr Leu Leu Leu Ser Glu Pro Cys Cys Phe Tyr Ile Pro Cys

20 25 30

Met Cys Thr Cys Cys Ile Tyr Cys Leu Leu Cys Lys Leu Leu Pro Ser

35 40 45

Phe Pro Arg Ala Phe Arg Gly Leu Thr Leu Cys Phe Ser Leu Pro Xaa

50 55 60

Thr Leu Val Thr Pro Phe Cys Val Ser Ile Thr Phe Thr Val Val Leu

65 70 75 80

Cys Tyr Ser Tyr Leu His Val Cys Pro Ile Leu Xaa Glu Leu Ser Ala

85 90 95

Thr

<210> 7331

<211> 40

<212> PRT

<213> Homo sapiens

<400> 7331

Thr Val Leu Met Glu Tyr Gly Leu Ile Tyr Ile Leu Leu Ser Trp Thr

1 5 10 15

Asn Thr Ile Cys Phe Trp Leu His Ser Thr Asn Arg Thr Trp Gln Asp

20 25 30

Lys Phe Met Val Arg Val Gly Trp

35 40

<210> 7332

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

6536

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7332

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | His | Gln | Arg | Gly | Leu | Ser | Leu | Xaa | Gly | Thr | Ser | Gly | Ser | Pro | Gly |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gln | Glu | Xaa | Arg | Thr | Ser | Glu | Ser | Xaa | Ile | Leu | Leu | Ile | Xaa | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Leu

<210> 7333

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6537

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7333

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Ser | Ala | Ser | Leu | Ser | Ser | Ser | His | Lys | Lys | Gly | Thr | Lys | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ala | Pro | Pro | Thr | Val | Ala | Xaa | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Cys | Arg | Asn | Pro | Ala | Arg | Val | Xaa | Pro | Xaa | Xaa | Xaa |
| | | 35 | | | | | 40 | | | | | 45 |

<210> 7334

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6538

<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7334
Ser Pro Ala Xaa Gln Met Xaa Ser Ser Xaa Pro Leu Tyr Phe Ser Gly
1 5 10 15
Val Xaa Leu Val Lys Arg Ile Cys Xaa Gly Glu Glu Leu Leu Ala Xaa
20 25 30
Leu His Leu
35

<210> 7335
<211> 17
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

6539

<400> 7335

Xaa Lys Ser Asp Gly His Leu Xaa Ala Xaa Asp Lys Asp Xaa Thr Xaa
1 5 10 15

Pro

<210> 7336

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6540

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7336

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Thr | Xaa | Trp | Phe | Cys | Leu | Val | Ser | Xaa | Ile | Glu | Phe | Val | Cys | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Lys | Phe | Xaa | Xaa | Asn | Phe | Tyr | Phe | Tyr | Leu | Phe | Pro | Phe | Ile | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Cys | Leu | Phe | Cys | Tyr | Phe | Cys | Xaa | Val | Phe | Leu | Xaa | Pro | Leu | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

<210> 7337

<211> 22

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7337

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Trp | Gly | His | Pro | Xaa | Lys | Asn | Lys | Xaa | Pro | Gly | Ala | His | Trp | Val |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Leu | Tyr | Glu | Lys |
| | | | | | 20 |

<210> 7338

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

6541

<400> 7338

Ala Arg Ala Glu Phe Gly Thr Arg Gly Ala Arg Tyr Pro Ile Arg Pro
1 5 10 15

Ile Val Ser Arg Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val
20 25 30

Thr Gly Asn Pro Lys Xaa
35

<210> 7339

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7339

Leu Ser Lys His Thr Ile Tyr Met Thr Leu Ile Leu Ile Thr Arg Ser
1 5 10 15

Asn Gln Xaa Asp Asn Glu Ile Pro Ile Ile Lys Phe Gly Glu Lys Xaa
20 25 30

Ser Lys Ile Tyr Gln Asn Ile Cys Pro Pro Xaa Arg Cys Ile Ser Ser
35 40 45

Leu

<210> 7340

<211> 18

<212> PRT

6542

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7340

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Asn | Glu | Val | Thr | Asp | Xaa | Leu | Lys | Lys | Lys | Lys | Lys | Lys | Ile | Pro |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

Xaa Leu

<210> 7341

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7341

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Pro | Ile | Gly | Pro | Phe | Phe | Phe | Ser | Cys | Lys | Thr | Val | Leu | Leu | Leu |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Lys | Ile | Ile | Leu | Glu | Tyr | Cys | Gln | Cys | Val | Asp | Asn | Ile | His | Leu |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Leu | Thr | Ala | Tyr | Ser | Ser | Val | Lys | Leu | Leu | Lys | Val | Leu | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Met | Lys | His | Leu | Val | Lys | Asn | Trp | Xaa | Gly | Ser | Asn | Xaa | His | Gly |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Asn | Pro | Arg | Thr | Leu | Gln | Ile | Pro | Pro | Leu | Ile | Leu | Asn | Ser | Lys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

6543

Ile Ser Ile Ile Leu Asp Trp Ala
85

<210> 7342

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7342

Asn Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Xaa Ser
1 5 10 15

Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn
20 25 30

Pro Lys Xaa
35

<210> 7343

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

6544

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7343

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Leu | Lys | Thr | Pro | Leu | Gly | Leu | Xaa | Gln | Ile | Thr | Val | Phe | Asn | Met |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Xaa | Leu | Arg | Leu | Tyr | Asn | Leu | Asn | Pro | Ile | Ser | Leu | Leu | Leu | Ser |
| | | 20 | | | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Ser | Glu | Thr | Leu | Asn | Xaa | Thr | Ile | Leu | Cys | Xaa | Ala | Lys | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ser | Phe | Leu | Phe | Xaa | Arg | Asn |
| | 50 | | | | 55 | |

<210> 7344

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7344

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Val | Ile | Cys | Ile | Leu | Ile | Asn | Xaa | Gln | His | Thr | Val | Arg | Ser |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

6545

Thr Leu Xaa Tyr Tyr Ile Glu Val Leu Leu Phe Ala Tyr Leu Leu Ile
20 25 30

Phe Ser Thr Gln Ser Gly Ser His Phe Val Phe Cys
35 40

<210> 7345

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

6546

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7345

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Thr | Gln | Val | Xaa | Ala | Gln | Gln | Glu | Ala | Thr | Asp | Leu | Trp | Asp | Pro |
| 1 | | | | 5 | | | | | | 10 | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Pro | Gly | Val | Phe | Ala | Gly | Leu | Thr | Pro | Ala | Ser | Leu | Xaa | Phe | Gln |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Phe | Leu | Ser | Lys | Val | Glu | Xaa | Thr | Phe | Xaa | Cys | Ile | Cys | Cys | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Trp | Cys | Ser | Gly | Pro | Ser | Arg | Pro | Cys | Cys | Xaa | His | Asn | Xaa | Xaa |
| | 50 | | | | | | 55 | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Xaa | Xaa | Pro | Gly | Xaa | Ile | Leu | Ser | Gly | Xaa | Val | Phe | Thr | Ala | Leu |
| 65 | | | | | | 70 | | | | 75 | | | | | 80 |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ala | Leu | Gln | Leu | Gly | Xaa | Thr | Met | Pro | Ala | Xaa |
| | | | | 85 | | | | | 90 | | |

6547

<210> 7346

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7346

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Lys | Met | Ile | Leu | Glu | Xaa | Val | Phe | Tyr | Val | Phe | Lys | Xaa | Arg |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ile | Ser | Phe | Leu | Tyr | Ala | Val | Asn | Xaa | Ser | His | Val | Tyr | Val | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Val | Ser | Leu | Cys | Gly | Asn | Ser | Leu | Asn | Tyr | Tyr | Ile | Ser | Ser | Leu |
| | | | 35 | | | | | 40 | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ile | Leu | Ser | Ser | Phe | Arg | Gly | Thr | Gly | His | Ile | Tyr | Met | Lys | Asn |
| | | | | | | | 55 | | | | 60 | | | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Asn | Xaa | Thr | Thr | Asn | Lys | Arg | Glu | Ile | Thr | Arg |
| 65 | | | | | 70 | | | | | 75 | |

<210> 7347

6548

<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7347
Leu Val Pro Asn Ser Ala Arg Gly Phe Thr Leu Leu Thr Lys Arg Leu

6549

| | | | |
|---|----|----|----|
| 1 | 5 | 10 | 15 |
| Asn Arg Leu Phe Ile Asn Arg Pro His His Ser Xaa Xaa Leu Asn Leu | 20 | 25 | 30 |
| Trp Ala Xaa Asn His Ser Arg Leu Thr Leu Ser Thr Pro Gln Xaa Gly | 35 | 40 | 45 |
| Gly Pro Ser Gln Ile Ile Ser Xaa Phe Lys Ser Xaa Ala Leu Pro Phe | 50 | 55 | 60 |
| Pro Phe Asn Xaa Gln Xaa Pro Gly Gly Xaa Lys Arg Gly Pro Leu Ile | 65 | 70 | 75 |
| | | | 80 |

<210> 7348

<211> 21

<212> PRT

<213> Homo sapiens

<220>

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<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7348

| | | | | |
|---|---|---|----|----|
| Val Gln Xaa His Phe Thr Xaa Gln Ser Tyr Gly Xaa Thr His Pro Leu | 1 | 5 | 10 | 15 |
|---|---|---|----|----|

| | |
|---------------------|----|
| Ile Ile Leu Val Xaa | 20 |
|---------------------|----|

6550

<210> 7349

<211> 63

<212> PRT

<213> Homo sapiens

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<222> (13)

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7349

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ser | Glu | Val | Lys | Lys | Ser | Val | Cys | Val | Val | Val | Xaa | Ala | Trp | Ile |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Pro | Ser | Cys | Leu | Gly | Xaa | Tyr | Thr | Tyr | Ala | Ser | Phe | Leu | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ile | Phe | Cys | Leu | His | Ser | Ser | Glu | Phe | Thr | Tyr | Phe | Leu | Lys | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Leu | Leu | Phe | Arg | Xaa | Ile | Ser | Arg | His | Trp | Gly | Arg | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | |

<210> 7350

<211> 35

<212> PRT

<213> Homo sapiens

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<222> (2)

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<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

6551

<400> 7350

Cys Xaa Thr Tyr Val Tyr Pro Leu Leu Lys Phe Pro Pro Ala Leu Ile
1 5 10 15

Ser Met Phe Gln Cys Gln Xaa Ser Tyr Asn Ser Lys Cys Ser Pro Lys
20 25 30

Gly Gly Ser
35

<210> 7351

<211> 69

<212> PRT

<213> Homo sapiens

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<222> (14)

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6552

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<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7351

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Lys | Lys | Pro | Lys | Thr | Ser | His | Glu | Val | Asn | Tyr | Xaa | Lys | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Pro | Trp | Asp | Xaa | Lys | Ile | Arg | Val | Lys | Thr | Val | Gly | Gln | Gln | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Pro | Xaa | Xaa | Gln | Asn | Xaa | Ser | Tyr | Xaa | Lys | Lys | Leu | Xaa | Ile | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Met | Asn | Gln | Thr | Xaa | Thr | Pro | Phe | Pro | Ile | Leu | Leu | Lys | Ile | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Ser | Ser | Ile | Lys | Asn |
| 65 | | | | |

<210> 7352

<211> 60

<212> PRT

<213> Homo sapiens

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<220>
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 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7352
 Lys His Gln Leu Phe Cys Phe Phe Xaa Pro Tyr Lys Leu Xaa Xaa Xaa
 1 5 10 15
 Xaa Glu Xaa Trp Val Val Val Met Val Xaa Thr Ile Thr Gly Tyr Phe
 20 25 30
 Ala Ala Thr Val Arg Xaa Glu Lys Xaa Gln Arg Ile Leu Leu Ser Cys
 35 40 45
 Xaa Ile Trp Gly Ile Thr Lys Trp Lys Thr Ala Ile
 50 55 60

6554

<210> 7353
<211> 18
<212> PRT
<213> Homo sapiens

<220>
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<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7353
Ala Xaa Pro Gly Gly Xaa Arg Asn Gln Phe Arg Pro Ile Xaa Ile Pro
1 5 10 15

Ile Thr

<210> 7354
<211> 34
<212> PRT
<213> Homo sapiens

<220>
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<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7354
Ala Ala Xaa Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg
1 5 10 15

6555

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr
 20 25 30

Lys Xaa

<210> 7355

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7355

Met Leu Pro Leu Xaa Ile Ile Thr Cys Leu Thr Leu Asn Lys Phe Tyr
 1 5 10 15

Arg Ile Phe Ser Arg Thr Phe Ala Asn Thr Gly Asp Ser Gln Lys Gln
 20 25 30

Cys Trp Glu Leu Phe Ser Asn Phe Pro Phe Glu Asn Leu Gln Lys Phe
 35 40 45

<210> 7356

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7356

Xaa Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val Gly Arg
 1 5 10 15

Phe Ile Gly Arg Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser Trp Leu
 20 25 30

Ser Lys Ile Asn Leu Ser Ser Leu

6556

35

40

<210> 7357

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7357

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Glu | Ala | Thr | Asn | Leu | Pro | Ser | Leu | Val | Ile | Ala | Gly | Cys | Pro | Lys |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Asn | Leu | Xaa | Ser | Thr | Leu | Asn | Leu | Pro | Thr | Glu | Pro | Ser | Lys | Ser |
| | | 20 | | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Val | Asn | Leu | Thr | Val | Ser | Pro | Lys | Glu | Glu | Gln | Leu | Phe | Gly | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Xaa | Lys | Lys | Pro | Cys |
| | 50 | | | |

<210> 7358

<211> 34

<212> PRT

<213> Homo sapiens

<220>

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<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6557

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7358

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Xaa Arg
1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr
20 25 30

Gln Xaa

<210> 7359

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7359

Leu Leu Ile Pro Gly Ala Gly Leu Ser Leu Leu Pro Ile Ser Gln Pro
1 5 10 15

Cys Glu Ser Val Leu Ala Ser Thr Asp Thr Ala Asp Pro Glu Leu Asn
20 25 30

Val Pro Lys Trp Arg Ser Gln Ser Arg Leu Phe Xaa Asn Trp Ala Lys
35 40 45

Thr Leu Lys Trp Gly Gln Ser Gly Leu Pro Gln Trp Ser Asn Thr Gly
50 55 60

Phe Leu Leu Asn Val Ser Lys Thr Cys Pro
65 70

<210> 7360

<211> 77

<212> PRT

<213> Homo sapiens

<220>

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<222> (24)

6558

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<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (60)

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7360

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ile | Ile | Val | Val | Leu | Val | Trp | Trp | His | Lys | Phe | Phe | Ser | Leu | His |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Val | Tyr | Ala | Asp | Cys | Leu | Xaa | Xaa | Leu | His | Pro | Phe | Leu | Phe | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Glu | Xaa | Xaa | Lys | Ser | Gln | Phe | Cys | Leu | Leu | Asp | Ala | Leu | Lys | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

6559

Ile Arg Arg Glu Arg Lys Asn Gln Thr Asp Cys Xaa Tyr Phe Xaa Glu
50 55 60

Xaa Asp Asn Phe Gly Xaa Xaa Cys Gln Ala Pro Ser Trp
65 70 75

<210> 7361
<211> 33
<212> PRT
<213> Homo sapiens

<400> 7361
Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg
1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Pro
20 25 30

Lys

<210> 7362
<211> 69
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

6560

<400> 7362

Asn Asn Met Asn Cys Met Pro Thr Val Tyr Gln Thr Trp His Trp Ala
1 5 10 15

Pro Cys Cys Cys Arg Phe Ser Glu Pro Trp Pro Leu Tyr His Gly Pro
20 25 30

Asp His Val Phe Ser Gly Arg Leu Asn Lys Leu Xaa Ile Glu Gln Ile
35 40 45

Thr Thr Ser Ser Xaa Asp Ile Lys Xaa Lys Tyr Ser Phe Asp Xaa Ile
50 55 60

Glu Gln Trp Glu Val
65

<210> 7363

<211> 77

<212> PRT

<213> Homo sapiens

<220>

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<400> 7363

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Arg | Xaa | Phe | Ala | Phe | Ile | Asn | Tyr | Ile | Trp | Pro | Leu | Leu | Thr | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Leu | Cys | Xaa | Asn | Xaa | Phe | Phe | Phe | Xaa | Xaa | Val | Cys | Trp | Glu |
| | | | 20 | | | | | | 25 | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Phe | Phe | Pro | Phe | Leu | Lys | Lys | Asn | Gln | Thr | Thr | Xaa | Xaa | Xaa |
| | | 35 | | | | | | 40 | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Val | Ser | Trp | Glu | Ser | Pro | Xaa | Gly | Xaa | Lys | Xaa | Ile | Pro | Gly | Leu |
| | 50 | | | | | | 55 | | | | 60 | | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ser | Pro | Pro | Ile | Leu | Phe | Ser | Trp | Ala | Leu | Phe | Tyr |
| 65 | | | | | 70 | | | | | 75 | | |

<210> 7364

6562

<211> 100
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<213> Homo sapiens

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6563

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6564

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7364

Xaa Pro Phe Leu Leu Leu Thr Xaa Xaa Leu Lys Trp Gly Gly Gly Leu
1 5 10 15

Xaa Pro Lys Asn Xaa Thr Phe Phe Pro Arg Gly Glu Lys Thr Ser Arg
20 25 30

Gly Ala Leu Gly Gly Xaa Pro Pro Pro Leu Lys Asn Pro Leu Xaa Gln
35 40 45

Asn Pro Leu Leu Phe Pro Gln Asn Gly Ser Xaa Xaa Phe Xaa Xaa Xaa
50 55 60

Gly His Pro Pro Asn Leu Asn Asp Phe Xaa Phe Xaa Ile Xaa Xaa Arg
65 70 75 80

Gly Xaa Gln Ser Asn Trp Xaa Phe Xaa Lys Ala Lys Gly Asn Leu Pro
85 90 95

Pro Xaa Phe Gly
100

<210> 7365

<211> 122

<212> PRT

<213> Homo sapiens

<220>

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6565

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6566

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

6567

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7365

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Gly | Phe | Glu | Leu | Phe | Val | Glu | Xaa | Lys | Asn | Gln | Xaa | Xaa | Lys | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Gly | Ser | Phe | Xaa | Lys | Lys | Lys | Leu | Leu | Gly | Ala | Trp | Xaa | Thr | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Xaa | Lys | Lys | Xaa | Xaa | Lys | Lys | Xaa | Leu | Glu | Phe | Xaa | Phe | Pro | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Gly | Xaa | Ile | Phe | Phe | Xaa | Xaa | Lys | Asn | Ser | Pro | Xaa | Lys | Ile |
| 50 | | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Phe | Pro | Pro | Phe | Trp | Gly | Glu | Xaa | Xaa | Xaa | Xaa | Xaa | Lys | Xaa | Xaa |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Pro | Pro | Phe | Xaa | Ile | Trp | Lys | Asn | Phe | Gly | Pro | Pro | Phe | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Xaa | Phe | Leu | Lys | Lys | Ile | Phe | Phe | Gly | Glu | Lys | Xaa | Pro | Pro | Lys |
| | | | 100 | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Pro | Pro | Xaa | Asn | Phe | Xaa | Lys | Asn | Ser |
| | | | 115 | | | | 120 | | |

<210> 7366

6568

<211> 50
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7366
 Leu Ser Thr Phe Ser Leu Leu Phe Glu Val Leu Phe Gln Pro Ser Phe
 1 5 10 15
 Leu Lys Leu Phe Xaa Ser Thr Leu Ser Phe Ser Xaa Phe Ile Thr Tyr
 20 25 30
 Pro Phe Ser Leu Glu Leu Glu Leu His Tyr Leu Phe Tyr Tyr Phe Thr
 35 40 45
 Arg Leu
 50

<210> 7367
 <211> 35
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7367
 Ala Ala Arg Xaa Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg

6569

1 5 10 15
Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Asn Pro
 20 25 30
Lys Xaa Xaa
 35

<210> 7368

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6570

<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7368
Ser His Ser Gly Ser Ser Ser His Xaa Leu Asp Leu Cys Val Tyr Glu
1 5 10 15
Tyr Ile Lys Ile Arg Ala Leu Xaa Arg Xaa Val Leu Val Xaa Asn Gly
20 25 30
Tyr Ser Ser Val Val Gln Arg Tyr Thr Lys Cys Xaa Phe Leu Tyr Lys
35 40 45
Val Lys Ile Leu Gly Gly Tyr Lys Lys Ile Thr Leu Asn Xaa Leu Thr
50 55 60
Leu Xaa Gly Phe Asp Ile Xaa Phe Ser Xaa Trp Asn Pro
65 70 75

<210> 7369
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

6571

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7369

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Thr | Val | Ser | Val | Cys | Thr | Xaa | Xaa | Thr | Lys | Glu | Thr | Cys | Leu |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Thr | Phe | Gly | Phe | Gly | Trp | Lys | Leu | Phe | Ile | Phe | Cys | Leu | Ile | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asn | Leu | Leu | Ser | Gly | Thr | Ala | His | Xaa | Val | Asn | Lys | Xaa | Val | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Asp | Gly | Thr | Gly | His | Gly | Lys | Leu | Lys | Lys | Ser | Phe | Leu | Ser | Leu |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Phe | Val | Arg | Leu | Asn | His | Leu | Thr | Tyr | Xaa | Ser | Glu | Ser |
| 65 | | | | | 70 | | | | | 75 | | | |

<210> 7370

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6572

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7370

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Xaa | Ala | Cys | Gly | Phe | Xaa | Xaa | Asn | Trp | Gln | Gln | Cys | Gln | Ile | Pro |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ser | Trp | Ala | Leu | Phe | Lys | Ser | Xaa | Leu | Asn | Arg | Gly | Leu | Thr | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Xaa | Ser | Xaa | Leu | Arg | Cys | Thr | Lys | His | Thr | Xaa | Thr | Thr | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Phe | Ser | Phe | Asp | Ala | Gln | His | Xaa | His | Glu | Xaa | Thr | Trp | Lys | Cys |
| | | | | | | 55 | | | | | 60 | | | | |

| | | |
|-----|-----|-----|
| Pro | Phe | Lys |
| | | 65 |

6573

<210> 7371
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7371
Ser Phe Tyr Ile Arg Ile Arg Lys Cys Lys Leu Val Ser Xaa Ser Leu
1 5 10 15

Cys Xaa Leu Leu Asn Pro Thr Val Xaa Met Thr Asp Lys Phe Ser Pro
20 25 30

6574

Ser Pro Ala Xaa Cys Xaa Gln Val Arg Xaa Xaa Pro Lys Ser Pro Pro
 35 40 45

Phe Trp Asn Phe Lys Leu Gly Gly Ser Gln Asn Thr Xaa Gly Ser Tyr
 50 55 60

Phe
 65

<210> 7372

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7372

Gly His Val Phe Ser Phe Glu Leu Phe Ser Phe Ser Val Gly Gly Lys
 1 5 10 15

Ile Ser His Glu Lys Gln Lys Val Thr Leu Pro Ser Leu Met Pro Gly
 20 25 30

Ser Xaa Asp Glu Lys Glu Ile Leu Gly Lys Asp Gln Phe Pro Leu Phe
 35 40 45

6575

Gln Leu Ser Ile Thr Glu Phe Val Phe Gly Lys Trp Ala Phe Leu Lys
50 55 60

Ser Cys Ser Val Phe Gln Gln Gly Gln Glu Val Xaa Cys Leu Leu Cys
65 70 75 80

Tyr Leu Lys Xaa Ser Val Arg Gly Val Pro Xaa Gly Ser Arg Lys Xaa
85 90 95

Ser Ser Phe Cys
100

<210> 7373

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6576

<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

6577

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7373

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Ser | Val | Val | Val | Tyr | Xaa | Arg | Cys | Xaa | Leu | Met | Leu | Asn | Ser |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Tyr | Ser | Xaa | Arg | Glu | Xaa | His | Lys | Phe | Xaa | Val | Lys | Xaa | Pro | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Cys | Gly | Phe | Phe | Leu | Leu | Leu | Xaa | Asn | Met | Xaa | Glu | Ile | Lys | Ile |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | His | Val | Leu | Gly | Pro | Leu | Lys | Pro | Tyr | Ile | Ala | Thr | Val | His | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Asn | Xaa | Xaa | Arg | Gly | Asp | Xaa | Gly | Xaa | Tyr | Val | Xaa | Thr | Tyr | Xaa |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Phe | Lys | Phe | Tyr | Leu | Leu | Arg | Lys | Xaa | Phe | Pro | Gln | Ser | Ala |
| | | | | 85 | | | | | 90 | | | | | 95 | |

<210> 7374

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

6578

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (57)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7374
 Ile Glu Phe Tyr Xaa Tyr Phe Gly Glu Lys Ile Ile Phe Cys Xaa Pro
 1 5 10 15
 Lys Xaa Ile Phe Ser Tyr Ser Phe Arg Lys Phe Glu Ile Leu Xaa Xaa
 20 25 30
 Phe Arg Ala Phe Asn Trp Asn Leu Xaa Pro Lys Leu Lys Pro Phe Thr
 35 40 45
 Leu Lys Pro Pro Ile Phe Phe Phe Xaa Pro Leu
 50 55

<210> 7375
 <211> 38
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

6579

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7375
Ala Xaa Arg Xaa Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Xaa Xaa
1 5 10 15
Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr
20 25 30
Lys Thr Xaa Gly Ile Xaa
35

<210> 7376
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

6580

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7376
Xaa Lys Glu Ile Thr Xaa Thr Xaa Arg Asn Ser Pro Leu Pro Tyr Pro
1 5 10 15
Ser Xaa Gly Ser Ser Ile Ser Gly Ser Ile Thr Asn Ser Trp Phe Xaa
20 25 30
Leu Thr Asn Pro His His Phe Leu Ser Phe Pro Xaa Xaa Leu Pro Pro
35 40 45
Xaa Thr Pro Ser Ile
50

<210> 7377
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

6581

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7377
Leu Leu Tyr Phe Pro Val Xaa Ser Ala Gly Xaa Xaa Xaa Leu Leu Ser
1 5 10 15
Asp Arg Asn Leu Tyr Lys Xaa Phe Phe Asp Pro Val Gly Arg Arg Tyr
20 25 30

Pro Phe

<210> 7378
<211> 26
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

6582

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7378
Gly Leu Leu Xaa Tyr Xaa Asn Glu Thr Leu Val Xaa Thr Lys Tyr Asp
1 5 10 15
Phe Xaa Lys Val Leu Phe Tyr Lys Thr Xaa
20 25

<210> 7379
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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6583

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6584

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<400> 7379

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Asn | Phe | Phe | Phe | Phe | Phe | Xaa | Lys | Ser | Pro | Phe | Xaa | Phe | Phe | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Xaa | Xaa | Phe | Leu | Lys | Ile | Gly | Pro | Xaa | Xaa | Phe | Xaa | Phe | Lys | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Leu | Lys | Lys | Lys | Asn | Phe | Asn | Cys | Phe | Xaa | Xaa | Lys | Ile | Xaa | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Phe | Lys | Xaa | Phe | Ser | Pro | Xaa | Arg | Phe | Phe | Pro | Xaa | Xaa | Phe | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Ile | Phe | Phe | Phe | Lys | Lys | Phe | Xaa | Phe | Phe | Gly | Gly | Phe | Phe |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Phe | Xaa | Pro | Ser | Leu | Ser | Pro | Asn | Phe | Xaa | Phe | Asn | Pro | Xaa | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |

6585

Phe Pro Pro Lys Ile Ser Pro Ser Pro Phe Pro Gln Lys Phe Pro Pro
100 105 110

<210> 7380
<211> 83
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6586

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<400> 7380

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Trp | Asp | Arg | Asp | Val | Gln | Leu | Ser | Lys | Ala | Leu | Ser | Tyr | Ala | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | His | Gly | Ala | Leu | Asn | Trp | Gly | Phe | Pro | Trp | Xaa | Leu | Val | Pro | Xaa |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Glu | Leu | Met | Pro | Leu | Xaa | Thr | Pro | Xaa | Ala | Leu | Pro | Pro | Xaa | Leu |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | His | Gly | Thr | Phe | Trp | Asn | Thr | Gly | His | Pro | Ser | Tyr | Ser | Xaa | Ala |
| | | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Pro | Ala | Arg | Glu | Gly | Pro | Thr | Phe | Xaa | Leu | Xaa | Xaa | Glu | Xaa | Pro |
| 65 | | | | | | 70 | | | | | 75 | | | | 80 |

Gly Lys Pro

<210> 7381

<211> 20

<212> PRT

<213> Homo sapiens

<220>

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<220>

<221> SITE

6587

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7381

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | His | Glu | Val | Thr | Ser | Leu | Glu | Phe | Phe | Phe | Phe | Phe | Leu | Xaa | Leu |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |

| | | | |
|-----|-----|-----|-----|
| Asn | Xaa | Phe | Xaa |
| | | | 20 |

<210> 7382

<211> 69

<212> PRT

<213> Homo sapiens

<220>

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<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7382

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gln | Met | Asp | Ser | Ile | Tyr | Val | Val | Leu | Asn | Asn | Asn | Leu | Gly | Cys |
| 1 | | | | | 5 | | | | | 10 | | | | 15 | |

6588

Leu Gln Thr Leu Gln Phe Ile Ile Phe Pro Tyr Lys Gln Asp Gly Leu
20 25 30

Gly Phe Ser Ser Ser Thr Xaa Ser Ile Xaa Pro Thr Xaa Phe Xaa Tyr
35 40 45

Ser Trp Ser Lys Lys Ile Thr Cys Phe Phe Phe Phe Lys Trp Ala Arg
50 55 60

Asn Xaa Phe Phe Phe
65

<210> 7383

<211> 61

<212> PRT

<213> Homo sapiens

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<222> (13)

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<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7383

Ile Arg Gly Ser Leu Ala Leu Glu Tyr Xaa Xaa Leu Xaa Lys Glu Met

6589

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 5 | 10 | 15 | | | | | | | | | | | | |
| Arg | Leu | Gly | Thr | Leu | Met | Ser | Gln | Asn | Leu | Phe | Ala | Gln | Xaa | Leu | Gly |
| | | 20 | | | | | | 25 | | | | | 30 | | |
| Arg | Thr | Ala | Leu | Leu | Thr | Leu | Gly | Cys | Thr | Thr | Trp | Leu | Lys | Phe | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Pro | Pro | Thr | Ser | Leu | Glu | Cys | Pro | Pro | Xaa | Ser | Pro | Xaa | | | |
| | 50 | | | | | 55 | | | | | 60 | | | | |

<210> 7384

<211> 24

<212> PRT

<213> Homo sapiens

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<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7384

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Pro | Phe | Pro | Xaa | Gly | Glu | Ile | Pro | Pro | Leu | Leu | Lys | Phe | Arg | Asn |
| 1 | | | | 5 | | | | | | 10 | | | | 15 | |

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Lys | Xaa | Xaa | Arg | Ser | Lys |
| | | | 20 | | | | |

<210> 7385

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

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6590

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<222> (39)
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<400> 7385
Leu Leu Xaa Val Leu Val Asn Gln Xaa Thr Xaa Leu Leu Asn Gln Xaa
1 5 10 15
Phe Lys Asn Leu Asn Gly Lys Phe Leu Asp Leu Asn Leu Gly Ser Lys
20 25 30
Phe Gly Xaa Pro Phe Pro Xaa Gln Val Ser
35 40

<210> 7386
<211> 46
<212> PRT
<213> Homo sapiens

<220>
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<400> 7386
Glu Pro His Pro Trp Asn Ala Thr Pro Leu Leu Thr Phe Ser Asn Glu
1 5 10 15

6591

Leu Arg Xaa Leu Lys Gly Arg Asp Tyr Glu Leu Leu Ile Phe Val Ser
 20 25 30

Pro Ser Arg Ala Gln Leu Cys Cys Gly Trp Asp Pro Ser Gln
 35 40 45

<210> 7387

<211> 34

<212> PRT

<213> Homo sapiens

<220>

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<220>

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<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7387

Val Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser
 1 5 10 15

Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Xaa Xaa Asp Trp Glu Asn
 20 25 30

Xaa Xaa

<210> 7388

<211> 38

<212> PRT

<213> Homo sapiens

6592

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<220>
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 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7388
 Arg Xaa Xaa Gly Gly Gly Arg Ser Ile Leu Met Asp Arg Pro Gly Trp
 1 5 10 15
 Met Asn Ala Ala Arg Ala Thr Xaa Leu Pro Xaa Ala Leu Val Gln Thr
 20 25 30
 Ile Tyr Pro Asn Lys Val
 35

<210> 7389
 <211> 52
 <212> PRT
 <213> Homo sapiens

<220>
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6593

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7389
 Xaa Phe Gln Ala Ser His Asn Phe Xaa Ile Asn Xaa Xaa Asp Arg Thr
 1 5 10 15
 Gln Glu Lys Thr Asn Xaa Leu His Gly Gly Ser Asn Phe Pro Phe Ser
 20 25 30
 Arg Pro Xaa Leu Lys Xaa Asn Pro Leu Pro Pro Arg Phe Pro Phe Xaa
 35 40 45
 Leu Pro Lys Phe
 50

<210> 7390
 <211> 25
 <212> PRT
 <213> Homo sapiens

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6594

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<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7390
Gly Asn Gly Asp Gly His Pro Cys Arg Cys His Asp Ala Arg Gly Asp
1 5 10 15
Lys Gly His Xaa Xaa Xaa Pro Xaa Trp
20 25

<210> 7391
<211> 32
<212> PRT
<213> Homo sapiens

<220>
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<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7391
Ser Glu Ala Ser Ala Gly Xaa Asn Xaa Leu Asn Phe Ser Gly Phe Pro
1 5 10 15
Gly Cys Arg Asn Ser Ala Arg Gly Pro Pro Gly Pro Pro Xaa Phe Phe
20 25 30

6595

<210> 7392
<211> 176
<212> PRT
<213> Homo sapiens

<220>
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<222> (23)
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<221> SITE
<222> (58)
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<220>
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<222> (83)
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<222> (95)
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6596

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<220>
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 <222> (127)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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 <222> (130)
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 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7392
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 1 5 10 15
 Pro Xaa Leu His Glu Phe Xaa Thr Ser Leu Cys Ile Ala Ser Gln Gly
 20 25 30
 Ser Pro Arg Lys Met Ala Glu Leu His Gly Gln Gly Val Leu Thr Pro
 35 40 45
 Pro Gln Met Gly Arg Val His Ser Pro Xaa Asp Leu His Ala Gly Arg
 50 55 60
 Pro Pro Ala Ala Asp Leu Pro Pro Arg Pro Met Leu His Met Val Gly
 65 70 75 80
 Gln Ser Xaa Trp Leu Val Glu Cys Phe Arg Gly Cys Val Tyr Xaa Arg

6597

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| | | | | | 85 | | | | | | 90 | | | | | 95 |
| Gly | Val | Met | Cys | Glu | His | His | Ser | Xaa | Lys | Arg | Gly | Leu | Leu | Lys | Gly | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| Lys | Trp | Gly | Leu | Xaa | Val | Asn | Leu | Ala | Asp | Gly | Gly | Arg | Thr | Xaa | Xaa | |
| | | 115 | | | | | 120 | | | | | 125 | | | | |
| Arg | Xaa | Leu | Gly | Leu | Ser | Pro | Arg | Thr | Tyr | Ile | Leu | Leu | Pro | Ser | Leu | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |
| Val | Ile | Ser | Pro | Ser | Leu | Pro | Pro | Arg | Gly | Ser | Cys | Xaa | Xaa | Ile | Trp | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| Pro | Cys | Ser | Trp | Ala | Ser | Thr | Met | Xaa | Val | Tyr | Ile | Gly | Leu | Gly | Lys | |
| | | | | 165 | | | | | 170 | | | | | 175 | | |

<210> 7393

<211> 91

<212> PRT

<213> Homo sapiens

<220>

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<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7393

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ser | Ser | Gly | Leu | Leu | Pro | Gly | Lys | Ile | Ser | Gln | Arg | Glu | Cys | Ala |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ala | Thr | Ser | Pro | Arg | Pro | Pro | Pro | Thr | Pro | Gly | Ser | Val | Val | Leu |
| | | | 20 | | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Pro | Gly | Pro | Ala | Ala | Arg | Pro | Pro | Arg | Ala | Pro | Ala | Val | Pro |
| | | | 35 | | | | 40 | | | | | 45 | | | |

6598

Leu Ser Leu Ser Pro Asn Leu Ala Leu Pro Gln Thr Cys Pro Val Pro
50 55 60

Val Gly Ser Ser Pro Xaa Gly Asn Trp Leu Trp Asp Arg Met Xaa Phe
65 70 75 80

Xaa Ala Ala Ala Asn Leu Gly Pro Gly Leu Ser
85 90

<210> 7394

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

6599

<400> 7394

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Ser | Arg | His | Arg | His | Val | Pro | Ala | Ser | Leu | Glu | Xaa | Glu | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| | | | | | | | | | | | | | | | |
| Arg | His | Ser | Leu | Xaa | Asp | Xaa | Asn | Phe | Gly | Xaa | Phe | Pro | Ser | Arg | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| | | | | | | | | | | | | | | | |
| Ser | Leu | Arg | Leu | Leu | Pro | His | Glu | Ala | Ile | Ser | Gly | Asp | Gly | Arg | Leu |
| | | | 35 | | | | 40 | | | | | 45 | | | |
| | | | | | | | | | | | | | | | |
| Gly | Gln | Arg | Gln | Val | Asn | Arg | Val | Pro | Gln | Ala | Pro | Phe | Pro | His | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| | | | | | | | | | | | | | | | |
| Lys | Xaa | Ala | Asp | Cys | Glu | Leu | Thr | Gly | Leu | Arg | Pro | Asn | Arg | Ser | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| | | | | | | | | | | | | | | | |
| Ser | Ser | Ser | Cys | Leu | Leu | Xaa | Thr | Ser | Gly | Pro | Ile | Leu | Ile | Pro | Xaa |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| | | | | | | | | | | | | | | | |
| Trp | Pro | Asn | Leu | Ala | Phe | Leu | Gly | Phe | Ala | Arg | Cys | Leu | Val | Cys | |
| | | | 100 | | | | | 105 | | | | | 110 | | |

<210> 7395

<211> 55

<212> PRT

<213> Homo sapiens

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6600

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7395
Cys Ala Cys Cys Xaa Val Asn Xaa Xaa Gly Xaa Ile Trp Xaa Lys Tyr
1 5 10 15
Pro Xaa Ile Leu Xaa Xaa Ser Ile Lys His Ala Cys Asp Ser Tyr Xaa
20 25 30

6601

Leu Lys Val Ile Leu Ser Ser Xaa Xaa Ile Ser Gly Xaa Tyr Xaa Leu
35 40 45

Ser Leu Ile Cys Leu Asn Ile
50 55

<210> 7396
<211> 19
<212> PRT
<213> Homo sapiens

<220>
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<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7396
Leu Leu Ile Xaa Asp Ser Leu Pro Phe Val Leu Asn Lys Ser Xaa Ile
1 5 10 15

Asn Glu Cys

<210> 7397
<211> 46
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

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6602

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<222> (45)
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<220>
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<222> (46)
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<400> 7397
Leu Thr Asn Gln Gly Phe Xaa Arg Lys Ile Leu Xaa Ser Lys Cys Xaa
1 5 10 15
Ser Ser Pro Gly Leu Tyr Ile His His Leu Leu Asp Ile His Ser Xaa
20 25 30
Val Lys Asn Thr Gly Ile Ile Ile Leu Ile Ser Thr Xaa Xaa
35 40 45

<210> 7398
<211> 34
<212> PRT
<213> Homo sapiens

<220>
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<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7398
Ala Ala Arg Xaa Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg
1 5 10 15
Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Asn Pro
20 25 30
Lys Xaa

6603

<210> 7399

<211> 41

<212> PRT

<213> Homo sapiens

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<222> (16)

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<222> (17)

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<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7399

Asn Ile Leu Phe Gly Glu Xaa Gly Ile Tyr Pro Pro Trp Leu Asn Xaa

1

5

10

15

Xaa Phe Leu Xaa Arg Phe Ser Trp Lys Xaa Leu Gly Gly Gly Asn Phe

20

25

30

Trp Gly Ser Arg Trp Arg Glu Pro Gly

35

40

<210> 7400

<211> 35

<212> PRT

<213> Homo sapiens

6604

<220>
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<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7400
Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg
1 5 10 15
Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr
20 25 30
Gln Xaa Xaa
35

<210> 7401
<211> 22
<212> PRT
<213> Homo sapiens

<220>
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<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7401
Asp Trp Phe Gly Cys Phe Lys Ile Asp Ile Val Val Gln Cys Val Leu
1 5 10 15
His Gly Gly Xaa Arg Xaa
20

<210> 7402
<211> 71
<212> PRT
<213> Homo sapiens

6605

<220>
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<220>
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<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7402
Xaa Ala Trp Ala Lys Cys Val Ile Tyr Arg Ser Gly Ala Arg Ala Glu
1 5 10 15
Ser Gly Pro Arg Thr Asp Pro Leu Ser Glu Leu Gly Leu His Gln Gly
20 25 30
Phe Gly Ser Gly Leu Asn Val Xaa Leu Ala Ser Ser Cys Arg Ser Thr
35 40 45
Gly Arg Leu Leu Ser Gln Gln Leu Arg Thr Pro Arg Thr Ser Glu Ala
50 55 60
Cys Ala Ile Ile Xaa Glu Leu
65 70

<210> 7403
<211> 42
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)

6606

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7403

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Leu | Pro | Trp | Glu | Xaa | Ser | Gly | Thr | Thr | Gly | Cys | Glu | Leu | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Gly | Gly | Gly | Arg | Ser | Arg | Thr | Ser | Gly | Ser | Pro | Gly | Leu | Gln | Glu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gly | Thr | Arg | Pro | Xaa | Met | Xaa | Gly | Gln |
| | | 35 | | | | | 40 | | |

<210> 7404

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6607

<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7404
Trp Xaa Tyr Gly Asp Leu Pro Ala Xaa Asn Phe Ser Lys Phe Gly Xaa
1 5 10 15
Xaa Gly Leu Glu Xaa His Xaa Arg Cys Ala Ala Ala Leu Xaa Thr Ser
20 25 30

<210> 7405
<211> 32
<212> PRT
<213> Homo sapiens

<220>
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6608

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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7405
Xaa Gly Phe Leu Xaa Xaa Met Xaa Lys Ile Arg Glu Xaa Xaa Leu Glu
1 5 10 15
Xaa His Arg Arg Cys Ala Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly
20 25 30

<210> 7406
<211> 33
<212> PRT
<213> Homo sapiens

<220>
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<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

6609

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7406
Glu Gln Gly Xaa Xaa Ser Ser Thr Ala Val Ser Gly Arg Ser Arg Thr
1 5 10 15
Ser Gly Ser Pro Gly Leu Gln Xaa Gln Thr His Ser Thr Leu Leu Pro
20 25 30

Asp

<210> 7407
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

6610

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7407

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Xaa | Trp | Asn | Ser | Thr | Xaa | Val | Ser | Gly | Arg | Ser | Arg | Thr | Ser |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Pro | Gly | Leu | Gln | Glu | Phe | Glu | His | Glu | Glu | Ala | Phe | Ser | Cys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Lys | Met | Xaa | Leu | Xaa | Ile | Ser | Phe | Pro | Ala | Thr | Gly | Cys | Gln | Xaa |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | |
|-----|-----|-----|-----|
| Leu | Ile | Glu | Xaa |
| | | | 50 |

<210> 7408

<211> 38

<212> PRT

<213> Homo sapiens

<220>

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<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7408

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Leu | Ile | Xaa | Leu | Arg | Ala | Xaa | Ser | Lys | Arg | Leu | Leu | Ile | Ala |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Asn | Ser | Asn | Leu | Lys | Ile | Met | Ala | Thr | Tyr | Tyr | Phe | Glu | Lys | Phe |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

6611

20

25

30

Val Glu Trp Cys Val Leu
35

<210> 7409

<211> 37

<212> PRT

<213> Homo sapiens

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<222> (10)

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<222> (19)

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<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7409

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Trp | Phe | Leu | Ala | Leu | Thr | Ala | Lys | Xaa | Gly | Lys | Ile | Gly | Trp | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Xaa | Val | Ala | Ser | Arg | Ser | Ser | Thr | Ser | Gly | Ser | Pro | Gly | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |

Xaa Xaa Phe Gly Thr
35

<210> 7410

<211> 112

<212> PRT

<213> Homo sapiens

<220>

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6612

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6613

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7410

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Trp | Met | Pro | Leu | Ile | Lys | Gly | Glu | Ser | Ala | Xaa | Glu | Leu | Pro | Ala |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Gly | Val | Thr | Ala | Val | Gly | Leu | Gly | Leu | Cys | Cys | Lys | Pro | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Leu | Pro | Cys | Ser | Gly | Lys | Cys | Leu | Ala | Leu | Ser | Leu | Leu | Thr | Ser |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Pro | Val | Ile | Xaa | Thr | Xaa | Arg | Xaa | Xaa | Arg | Xaa | Val | Gly | Xaa |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Xaa | Phe | Leu | Ala | Asp | Ser | Xaa | Leu | Ile | Ser | Val | Val | Leu | Lys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Asn | Leu | Met | Phe | Leu | Val | Val | Xaa | Phe | Trp | Gly | Gly | Xaa | Gly | Gly |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Lys | His | Gly | Gly | Ser | Ser | Glu | Leu | Xaa | Arg | Asn | Val | Ser | Xaa | Ile |
| | | | 100 | | | | | 105 | | | | | 110 | | |

<210> 7411

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

6614

<222> (6)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7411
Ala Arg Ala Glu Phe Xaa Thr Asn Xaa Thr Phe Thr Gly Xaa His Ile
1 5 10 15
Ile Ser Ile Gln Gly Xaa Ile Glu
20

<210> 7412
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

6615

<400> 7412

Ile Leu Lys Ile Arg Xaa Thr Xaa Pro Ala Xaa Pro Pro Arg Cys Xaa
 1 5 10 15

Ala Ala Leu Gly Ile Ser Gly
 20

<210> 7413

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7413

Pro His Ser Ala Gln Cys Gly Val Glu Ala Thr Xaa Xaa Xaa Ser Pro
 1 5 10 15

Xaa Pro Arg Asn Thr Xaa Asn Thr Leu Val Leu Ala Lys Ser Ser
 20 25 30

<210> 7414

<211> 45

6616

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7414

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ser | Ala | Leu | Pro | Ala | Xaa | Xaa | Arg | Glu | Ser | Trp | Xaa | Xaa | Cys | Arg |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Arg | Ser | Gly | Ile | Pro | Gly | Ser | Thr | His | Ala | Ser | Ala | His | Ala | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ile | Val | Arg | Trp | Ala | Asn | Leu | Leu | Val | Leu | Xaa | Ile |
| | | 35 | | | | | 40 | | | | | 45 |

<210> 7415

<211> 19

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6617

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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7415
 Pro Xaa Asn Asn Gly Phe Xaa His Met Ile Lys Lys Lys Lys Pro Phe
 1 5 10 15

Thr Asn Xaa

<210> 7416
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7416
 Arg Leu Cys Glu Leu Tyr Arg Gln Asp Leu Arg Ile Ala Ser Pro Pro
 1 5 10 15

Asn Glu Val Leu Thr Leu Ala Trp Val Leu Lys Arg Pro Asp Xaa Phe
 20 25 30

Leu Leu Leu Pro Glu Ser Met Gly Leu Gly Leu Pro His Val Trp Gly

6618

35

40

45

Ala Xaa Ala Xaa Trp Glu Xaa Lys Lys
 50 55

<210> 7417

<211> 42

<212> PRT

<213> Homo sapiens

<220>

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<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7417

Leu Arg Xaa Pro Ile Arg Lys Ala Gly Thr Pro Ala Arg Thr Gly Pro
 1 5 10 15

Val Ile Xaa Gly Ser Xaa Gln Ala Ser Ala His Xaa Gly Arg Lys Glu
 20 25 30

Asn Pro Xaa Ile Xaa Glu Glu Thr Glu Ser
 35 40

6619

<210> 7418
<211> 47
<212> PRT
<213> Homo sapiens

<220>
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (18)
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<220>
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<220>
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<222> (25)

6620

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7418

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Arg | Val | Arg | Ile | Tyr | Val | Xaa | Leu | Xaa | Val | Xaa | Xaa | Xaa | Thr | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Pro | Xaa | Asn | Val | Leu | Asp | Xaa | Asn | Thr | Gln | Ser | Xaa | Asp | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Ser | Xaa | Lys | Ser | Leu | Val | Xaa | Pro | Tyr | Asn | Trp | Val | Phe | Trp |
| | | 35 | | | | | 40 | | | | | 45 | | |

<210> 7419

<211> 44

<212> PRT

<213> Homo sapiens

<400> 7419

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | His | Phe | Cys | Ser | Lys | Thr | Asn | Ser | Ile | Lys | Pro | Leu | Glu | Cys | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Phe | Gln | His | Thr | Val | His | Arg | Gln | Pro | Phe | Tyr | Gln | Lys | Leu | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Phe | Pro | Met | Thr | Gly | Phe | Ser | Gly | Lys | Val | Asn |
| | | | 35 | | | | 40 | | | | |

<210> 7420

<211> 89

<212> PRT

<213> Homo sapiens

6621

<220>
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 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (73)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

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 <222> (75)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (84)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7420
 Ser Arg Asn Ser Arg Asn Asp Ser Thr Ser Val Phe Phe Phe Lys Lys
 1 5 10 15
 Asn Leu Ile Ser Leu Phe Tyr Phe Arg Ile Ala Leu Leu Ile Thr Phe
 20 25 30
 Leu Pro Trp Lys Leu Thr His Ser Leu Xaa Xaa Leu Arg Met His Pro
 35 40 45
 Met Lys Tyr Phe Arg Ile Glu Lys Lys Glu Met Asn Tyr Leu Asn Ser
 50 55 60
 Pro Glu Xaa Leu Cys Leu Leu Val Xaa Xaa Xaa Arg Leu Asn Ala Ile
 65 70 75 80

6622

Leu Pro Leu Xaa Thr Asp Ala Leu Leu
85

<210> 7421

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7421

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Arg | Val | Arg | Val | His | Leu | Pro | Phe | Phe | Phe | Phe | Phe | Lys | Phe | Ser |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ile | Gln | Xaa | Asn | Asn | Xaa | Xaa | Xaa | Xaa |
| | | | 20 | | | | 25 | | |

<210> 7422

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

6623

<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)

6624

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7422

Pro Phe Tyr Lys Lys Gly Glu Lys Ser Xaa Gly Val Xaa Arg Gly Pro

1

5

10

15

Pro Pro Gly Val Asn Xaa Arg Ser Arg Gly Lys Phe Pro Pro Gly Gly

20

25

30

Ser Gly Asn Pro Thr Ala Gly Ser Arg Xaa Asn Ser Ile Leu Xaa Xaa

35

40

45

Lys Thr Pro Asn Pro Asn Xaa Asn Pro Leu Lys Pro Xaa Gly Gly Ala

50

55

60

Leu Leu Gln Ala Pro Pro Xaa Asn Trp Asn Xaa Pro Gly Xaa Glu Pro

65

70

75

80

Asn

<210> 7423

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7423

Val Arg Lys Gln Leu Asn Leu Cys Val Leu Leu Glu Leu Gln His Pro

1

5

10

15

6625

Phe Leu Pro Phe His Leu Cys Val His Pro Gln Leu Asn Ala Ser Val
20 25 30

Thr Ser Asn Glu Ile Glu Asn Ala Ala Glu Ala Pro Gly Val Xaa Asn
35 40 45

Thr Gly Lys Gly Ser Trp Ala Ser Leu Leu Val Trp Glu Arg Thr Ser
50 55 60

Ser Pro Thr Leu Leu Ser Pro Ser Phe Trp Ala Ser Tyr Glu Phe Glu
65 70 75 80

Ala Phe Asn Lys Leu Tyr Gln Arg Xaa Met Lys Asn Phe Gln Asn Ala
85 90 95

Ile Gly Lys Gly Cys Ser Xaa Met Val Ala His Leu Lys Gly Ser Pro
100 105 110

Ile Xaa Leu Val Leu
115

<210> 7424

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6626

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7424

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Xaa | Phe | Leu | His | Xaa | Xaa | Leu | Xaa | Asp | Ser | Xaa | Cys | Xaa | Xaa | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ser | Phe | Lys | Leu | Phe | Phe | Pro | Thr | Phe | Arg | Leu | Val | Ser | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asp | Pro | His | Arg | Trp | Ile | Ser | Glu | Xaa | Tyr | Gln | Thr | Gly | Glu | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Leu | Gly | Leu | Thr | Phe |
| | 50 | | | | | 55 |

<210> 7425

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

6627

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7425

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ser | Glu | His | Xaa | Gly | Glu | Ser | Xaa | Ile | Lys | Val | Xaa | Arg | Ser | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ile | Xaa | Glu | Xaa | Phe | Gly | Glu | Thr | Asn | Ile | Pro | Leu | Asn | Val | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Thr | Tyr | Lys | Gly | Pro | Arg | Lys | Pro | Xaa | Xaa | Met | Lys | Lys | Asn | Lys |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Glu | Ile | Gln | Xaa | Pro | Xaa |
| | | | | | 50 |

6628

<210> 7426

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7426

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Cys | Arg | Xaa | Leu | Ser | Pro | Phe | Lys | Lys | Trp | Xaa | Pro | Gly | Pro | Lys |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Xaa | Xaa | Leu | Val | Arg | Asn | Ser | Arg | Val | Asp | Pro | Arg | Val | Xaa | Ala |
| | | | 20 | | | | 25 | | | | | 30 | | | |

His

<210> 7427

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

6629

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7427

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Lys | Ser | Pro | Leu | Ile | Asn | Ile | Gly | Xaa | Xaa | Gly | Lys | Phe | Leu | Gly |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gly | Phe | Ser | Gly | Cys | Xaa | Phe | Leu | Xaa | Gly | Pro | Tyr | Phe | Leu | Arg |
| | | | 20 | | | | | 25 | | | | | | 30 | |

Val

<210> 7428

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

6630

<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7428
Xaa Xaa Xaa Xaa Tyr Ala Cys Met Tyr Arg Ser Gly Ile Pro Gly Ser
1 5 10 15

6631

Thr His Ala Ser Asp Pro Ser Xaa Leu Lys Phe Ser Cys Tyr Ile Gly
20 25 30
Ile Pro His Xaa Xaa Leu Ser Ser Ile Xaa Gly Trp Met Arg Ala Xaa
35 40 45
Ile Ser Ser Trp Val Xaa Glu Gln Ile His Gly His Thr Phe Tyr Asn
50 55 60
Asp Trp Ser Ser Val Leu Gln Ile Lys Xaa Leu Gln Ser Xaa
65 70 75

<210> 7429

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6632

<221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 7429
 Gly Pro Gln Ser Pro Ala Ser Ser Val Phe Leu His Trp Pro Pro Gly
 1 5 10 15
 Ser Pro Arg Leu Asn Arg Pro Ser Cys Glu Asn His Cys Tyr Arg Cys
 20 25 30
 Glu Asn Gly Val Leu Gln Ser Ser Gln Arg Arg Xaa Ile Glu Lys Glu
 35 40 45
 Thr Asp Xaa Met Xaa Asn Xaa Leu Gly Lys Glu Ser Phe His Glu His
 50 55 60
 Phe Thr Met Leu Pro Xaa Ala Leu Lys Glu Ile Xaa Leu Xaa Leu Phe
 65 70 75 80
 Ser Gln Xaa Thr Leu Phe
 85

 <210> 7430
 <211> 84
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <400> 7430

6633

Glu Arg Met Ser Ser Phe Ser Ser Pro Leu Gly Ile Ser Arg Ala Arg
 1 5 10 15
 Arg Gly Lys Thr Lys Thr Gly Asn Val Tyr Lys Asn Cys Ser Arg Phe
 20 25 30
 Ala Asn Lys Lys Leu Val Lys Val Ser Lys Asn Gly Asp Trp Xaa Phe
 35 40 45
 Pro Gly Arg Lys Asp Ala Arg Gly Leu Ile Gly Glu Lys Leu Gly Thr
 50 55 60
 Leu Lys Pro Arg Lys Val Gln Ala Pro Ser Pro Thr Arg Xaa Ser Leu
 65 70 75 80
 Phe Phe Ser Xaa

<210> 7431

<211> 61

<212> PRT

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<400> 7431

Ile Ile Asn Asn Asn Lys Asn Lys Ala Asn Thr Leu Asp Ile Thr Leu
 1 5 10 15

Pro Ser Gly Ala Xaa Lys Lys Val Lys Ala Gly Ile Ser Phe Ser Tyr
 20 25 30

Leu Asn Leu Ser Val Leu Ser Gln Gly Ile Phe Ser Glu Asn Arg Trp
 35 40 45

Asn Xaa Val Arg Leu Trp Xaa Met Leu Ser Ile Ile Gly

6634

50

55

60

<210> 7432

<211> 53

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<400> 7432

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ala | Lys | Gly | Gln | Met | Val | Leu | Pro | Xaa | Pro | Pro | Cys | Xaa | Cys | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Xaa | Pro | Leu | Ser | Ala | Cys | Xaa | Ala | Leu | Thr | Gly | Asn | Xaa | Leu | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Asn | Leu | Gly | Arg | Gly | Leu | Pro | Ser | His | Pro | Cys | Ser | Ser | Ser | Pro |
| | 35 | | | | | | 40 | | | | | 45 | | | |

| | | | | |
|-----|-----|-----|-----|-----|
| Pro | Thr | Xaa | Asn | Pro |
| | 50 | | | |

6635

<210> 7433

<211> 54

<212> PRT

<213> Homo sapiens

<220>

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<220>

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<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7433

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Leu | Gly | Gly | Gly | Xaa | Pro | Thr | Gly | Pro | Pro | Phe | Trp | Ala | Xaa | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Lys | Ile | Xaa | Asn | Pro | Arg | Gly | Gly | Phe | Pro | Xaa | Gly | Gly | Glu | Lys |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Phe | Pro | Pro | Pro | Arg | Gly | Gly | Gly | Phe | Pro | Ser | Lys | Xaa | Pro | Gln |
| | | 35 | | | | | 40 | | | | | | 45 | | |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| Thr | Xaa | Pro | Gly | Phe | Pro |
| | | | | | 50 |